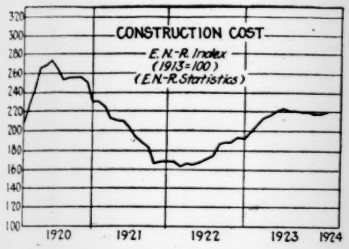
CONSTRUCTION NEWS

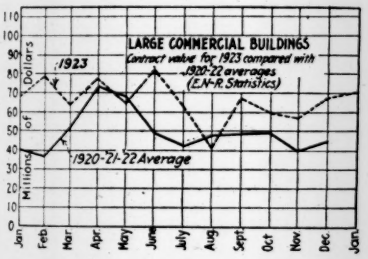
Engineering News-Record, February 14, 1924

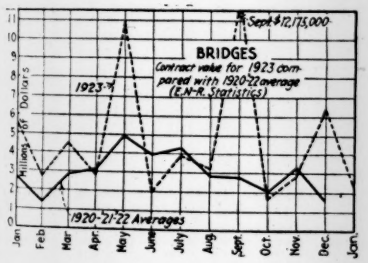
The Construction Barometer

Construction Cost Back to October, 1923, Level—Lower December Prices Stimulated Winter Building

THE decline in construction cost, in evidence at the beginning of the winter months, had its effect in a stimulated January building program. The actual physical volume of January construction, as shown by the Engineering News-Record Volume Index Number, was 3 per cent heavier than that for the preceding month. Construction cost, however, as shown by the E. N.-R. Cost Index Number, is now at precisely the same level as obtained in October, 1923, indicating that buying for early spring delivery, though conservative, is exerting a firming effect upon the materials market. The E. N.-R. Cost Index Number for October was 220.3, rising to 220.9 in November and dropping to 217.3 in December, 1923. The new year started with a rise of six-tenths of a point to 217.9 for January, with the February number returning to the 220.3 level.







Engineering News-Record Statistics

VALUE OF LARGE CONTRACTS LET IN THE UNITED STATES

Week Ended	Public Work	Private Work	Total Contracts
Jan. 24	$12,455,000	$13,457,000	$25,912,000
Jan. 31	8,013,000	25,998,000	34,011,000
Feb. 7	7,708,000	20,266,000	27,974,000
3 weeks	$28,176,000	$59,721,000	$87,897,000

LARGE BUILDING CONTRACTS—NUMBER AND VALUE

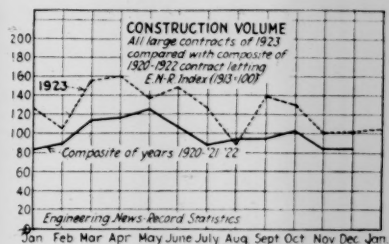
Week Ended	Public No.	Public Work	Private No.	Private Work
Jan. 24	12	$5,710,000	26	$6,476,000
Jan. 31	5	1,704,000	35	16,119,000
Feb. 7	13	4,530,000	27	12,[illegible],000
3 weeks	30	$11,944,000	88	$35,090,000

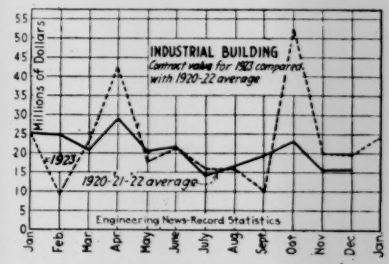
NUMBER OF LARGE JOBS NOW OUT FOR BIDS

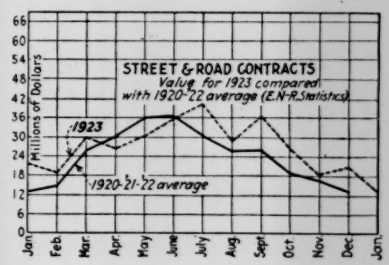
Week Ended	Private	Public All	Public Streets and Roads	Public Waterworks and Sewers	Public All Buildings
Jan. 24	39	205	55	31	66
Jan. 31	44	195	46	37	63
Feb. 7	40	192	42	40	56

PINE, CEMENT AND STEEL FIRMER DURING LAST THREE WEEKS

	Quoted on Feb. 14 at	Price Was	On
Structurals, Pittsburgh, 100 lb.	$2.40 @2.50	$2.35 @2.50	Feb. 7
Cement, Chi., net bbl.	2.20	2.10	Jan. 24
Pine, N. Y., M.ft.	61.00	60.00	Jan. 24
Fir, San Fran., M.ft.	36.00	38.00	Jan. 24
Common labor, hr.	.54	.53	June 28


CONSTRUCTION VOLUME
All large contracts of 1923 compared with composite of 1920-1922 contract letting
E.N.-R. Index (1913=100)
1923
Composite of years 1920-'21-'22
Engineering News-Record Statistics
Jan Feb Mar Apr May June July Aug Sept Oct Nov Dec Jan





PROPOSALS

For proposals Advertised see the pages immediately following the "Construction News" Section.

WATERWORKS

Bids Close		See Eng. News-Record
Feb. 16	Wilmington, N. C.	Feb. 14
Feb. 18	Bedford, Ind.	Jan. 31
Feb. 18	Casper, Wyo.	Feb. 7
Feb. 18	Festus, Mo.	Feb. 14
Feb. 18	Minneapolis, Minn.	Feb. 14
Feb. 19	Bloomington, Ind.	Jan. 24
Feb. 19	Corsicana, Tex.	Jan. 24
Feb. 19	Woodbury, N. J.	Feb. 7
Feb. 19	Brooklyn, N. Y.	Feb. 14
Feb. 20	San Francisco, Calif.	Jan. 24
Feb. 20	Goldsboro, N. C.	Jan. 31
Feb. 20	Phillip, Wis.	Jan. 31
Feb. 20	Hammond, Ind.	Jan. 31
Feb. 20	San Francisco, Calif.	Feb. 14
Feb. 20	Dayton, O.	Feb. 14
Feb. 21	Phila., Pa.	Feb. 7
Feb. 21	Palmyra, N. Y.	Feb. 7
Feb. 22	Smithfield, N. C.	Jan. 31
Feb. 25	Springfield, Mass. Adv. Feb. 14.	Feb. 14
Feb. 28	Buffalo, N. Y.	Feb. 7
Mar. 3	Wanaque, N. J. Adv. Feb. 14.	Feb. 14
Mar. 4	Gloversville, N. Y.	Jan. 31
Mar. 18	Mount Prospect, Ill. Adv. Feb. 14.	Feb. 14

SEWERS

Bids Close		See Eng. News-Record
Feb. 19	Lyndonville, N. Y.	Jan. 31
Feb. 19	Phila., Pa.	Feb. 14
Feb. 19	Edenton, Tex.	Feb. 14
Feb. 20	Russellville, Ala.	Feb. 14
Feb. 20	Brooklyn, N. Y.	Feb. 14
Feb. 21	Ashtabula, O. Adv. Feb. 14.	Feb. 14
Feb. 23	Lima, O. Adv. Feb. 7 and 14.	Feb. 7
Feb. 25	Richmond, Va.	Feb. 14
Feb. 27	Mobile, Ala. Adv. Jan. 31 to Feb. 14.	Feb. 7
Feb. 28	Milwaukee, Wis.	Feb. 14
Feb. 29	Wash., D. C.	Feb. 7
Mar. 3	Syracuse, N. Y. Adv. Feb. 7 and 14.	Feb. 14

BRIDGES

Bids Close		See Eng. News-Record
Feb. 19	Phila., Pa.	Feb. 14
Feb. 20	New York Adv. Jan. 17 to Feb. 14.	Jan. 17
Feb. 20	Tahlequah, Okla.	Feb. 7
Feb. 21	Missouri	Feb. 14
Feb. 25	Alabama	Feb. 7
Feb. 26	Nebraska	Feb. 14
Feb. 26	Florida	Feb. 14
Feb. 27	Austin, Minn.	Feb. 7
Feb. 28	Houston, Tex.	Feb. 7

Bids Close		See Eng. News-Record
Mar. 3	St. Paul, Minn. Adv. Jan. 24 to Feb. 14.	Jan. 24
Mar. 10	St. Anne de Bellevue, Que.	Jan. 31
May 1	Tientsen, North China	Oct. 11

DAMS

Mar. 1	Kingston, Jamaica — West Indies	Feb. 7
Mar. 6	Newark, N. J. Adv. Feb. 14.	Feb. 14

RAILWAYS

Mar. 18	New Zealand	Sept. 20
Apr. 1	Indiana	Jan. 24

EXCAVATION, DRAINAGE IRRIGATION

Feb. 18	Tampa, Fla. Adv. Jan. 24 to Feb. 14.	Jan. 24
Feb. 19	Gormer, Ia.	Feb. 14
Feb. 25	Kingston, Pa.	Feb. 7
Feb. 26	Redwood Falls, Minn.	Feb. 14
Mar. 11	Glens Falls, N. Y. Adv. Feb. 14.	Feb. 14

STREETS AND ROADS

Feb. 15	New York, N. Y.	Feb. 7
Feb. 18	New Philadelphia, O.	Jan. 24
Feb. 18	Phila., Pa.	Feb. 14
Feb. 18	Oklahoma City, Okla.	Feb. 14
Feb. 19	St. Louis, Mo.	Jan. 24
Feb. 19	Morristown, N. J.	Feb. 7
Feb. 19	Chickasha, Okla.	Feb. 14
Feb. 19	Omaha, Neb.	Feb. 14
Feb. 20	Brooklyn, N. Y.	Feb. 14
Feb. 20	Green Bay, Wis.	Feb. 14
Feb. 21	Louisiana	Feb. 14
Feb. 21	Bishopville, S. C.	Feb. 14
Feb. 21	Missouri	Feb. 14
Feb. 25	Daingerfield, Tex.	Feb. 7
Feb. 25	Verona, Pa.	Feb. 14
Feb. 25	Alabama	Feb. 14
Feb. 25	Los Angeles, Calif.	Feb. 14
Feb. 25	Electra, Tex.	Feb. 14
Feb. 25	Akron, O.	Feb. 14
Feb. 25	Williamson, W. Va.	Feb. 14
Feb. 26	Plymouth, Wis.	Jan. 31
Feb. 26	Greenville, Tex.	Feb. 7
Feb. 26	Bluefield, W. Va. Adv. Feb. 7 and 14.	Feb. 7
Feb. 26	Nebraska	Feb. 14
Feb. 26	Bay St. Louis, Miss.	Feb. 14
Feb. 26	Greenville, Wis.	Feb. 14
Feb. 27	Rio Grande, Tex.	Feb. 7
Feb. 27	Nebraska	Feb. 14
Feb. 28	Kenosha, Wis.	Jan. 17
Feb. 28	Nebraska	Feb. 14
Mar. 1	Tuscaloosa, Ala.	Jan. 31
Mar. 3	Alabama	Feb. 14
Mar. 4	Beaumont, Tex.	Feb. 7
Mar. 4	St. Louis, Mo.	Feb. 14
Mar. 6	Pennsylvania Adv. Feb. 14.	Feb. 14
Mar. 11	Washington	Jan. 10
Mar. 11	Antigo, Wis.	Feb. 7
Mar. 11	Fairport, N. Y. Adv. Feb. 14.	Feb. 14
Mar. 11	Corsicana, Tex.	Feb. 14
Mar. 18	Washington	Feb. 7

INDUSTRIAL WORKS

May 21	Wellington, New Zealand	Jan. 10

BUILDINGS

Feb. 15	Phila., Pa.	Feb. 14
Feb. 16	Baltimore, Md.	Jan. 31
Feb. 18	Wheaton, Ill.	Jan. 31
Feb. 18	Boston, Mass.	Feb. 7
Feb. 18	Davidson, N. C.	Feb. 14
Feb. 18	Columbus, O.	Feb. 14
Feb. 18	Richmond Hill, Ont.	Feb. 14
Feb. 19	Appleton, Wis.	Jan. 31
Feb. 19	Milwaukee, Wis.	Jan. 31
Feb. 19	Bluefield, W. Va.	Feb. 7
Feb. 19	Ashland, O.	Feb. 7
Feb. 19	Akron, O.	Feb. 7
Feb. 19	Highland Park (Detroit P. O.) Mich.	Feb. 14
Feb. 19	Brookline (Boston P. O.), Mass.	Feb. 14
Feb. 19	Mamaroneck, N. Y.	Feb. 14
Feb. 20	Irvington (branch of Newark), N. J.	Jan. 24
Feb. 20	Huntington, W. Va. Adv. Jan. 24 to Feb. 14.	Jan. 24
Feb. 20	Lecompte, La.	Feb. 7
Feb. 20	Bad Axe, Mich.	Feb. 14
Feb. 22	Smithfield, N. C.	Feb. 14
Feb. 25	Rome, N. Y. Adv. Jan. 31 and Feb. 14.	Jan. 31
Feb. 25	Amarillo, Tex.	Feb. 7
Feb. 25	Harrison, N. Y.	Feb. 14
Feb. 25	Brooklyn, N. Y.	Feb. 14
Feb. 25	Huntington, W. Va.	Feb. 14
Feb. 26	Brooklyn, N. Y.	Feb. 7
Feb. 26	Long Island City, N. Y.	Feb. 7
Feb. 26	Pawhuska, Okla.	Feb. 14
Feb. 27	Vermilion, S. D.	Feb. 7
Feb. 27	Redwood Falls, Minn.	Feb. 14
Feb. 27	Phila., Pa.	Feb. 14
Feb. 28	Phila., Pa.	Jan. 31
Feb. 29	Morris Plains, N. J.	Feb. 14
Mar. 1	Gilbert, Minn.	Feb. 7
Mar. 1	Akron, O.	Jan. 24
Mar. 1	Chattanooga, Tenn.	Jan. 31
Mar. 1	Annandale-on-Hudson, N. Y.	Feb. 14
Mar. 3	Rhinelander, Wis.	Jan. 31
Mar. 6	Elkhart Lake, Wis.	Feb. 14
Mar. 7	Brooklyn, N. Y.	Feb. 14
Mar. 7	New York, N. Y.	Feb. 14
Apr. 1	Duluth, Minn.	Feb. 7
Apr. 1	Atlantic City, N. J.	Feb. 7
May 1	Youngstown, O.	Feb. 7

FEDERAL GOVERNMENT WORK

Feb. 18	Steel Form and Coffer Rods—Addison, Ky.	Feb. 14
Feb. 19	Soft Steel Bars—Owensboro, Ky.	Feb. 14
Feb. 20	Cement—Milwaukee, Wis. Adv. Jan. 24 to Feb. 14.	Jan. 24
Feb. 20	Steel Bars — Milwaukee, Wis. Adv. Jan. 24 to Feb. 14.	Jan. 24
Feb. 23	Steel Barges—Florence, Ala. Adv. Feb. 7 and 14.	Feb. 7
Feb. 25	Laundry—American Lake, Wash.	Jan. 24
Feb. 25	Dredging—Plymouth, Mass. Adv. Jan. 31 to Feb. 14.	Jan. 31
Feb. 25	Dredging—Chelsea, Mass.	Feb. 7
Feb. 26	Water Piping, etc.—Phila., Pa.	Jan. 31
Feb. 27	Barrack — Puget Sound, Wash.	Jan. 31
Feb. 28	Steel Boat Hull—Huntington, W. Va. Adv. Jan. 31 to Feb. 14.	Jan. 31
Feb. 28	Dump Scow—Duluth, Minn. Adv. Jan. 31 to Feb. 14.	Jan. 31
Mar. 1	Turbines—Florence, Ala. Adv. Jan. 17 to Feb. 14.	Jan. 17
Mar. 1	Hospital Ward—Fort Sill, Okla. Adv. Feb. 7 and 14.	Feb. 7
Mar. 3	Dredging—Galveston, Tex. Adv. Feb. 7 and 14.	Feb. 7
Mar. 3	Boats—Wash., D. C. Adv. Feb. 7 and 14.	Feb. 7
Mar. 4	Dredging—Providence, R. I. Adv. Feb. 7 and 14.	Feb. 7
Mar. 4	Switchboard Apparatus — Florence, Ala.	Feb. 7
Mar. 10	Stone—Humboldt Bay, Calif.	Jan. 24
Mar. 22	Generators—Florence, Ala.	Feb. 14
Mar. 28	Ice and Refrigerating Plant —Livermore, Calif. Adv. Feb. 14.	Feb. 14

UNCLASSIFIED

Feb. 15	Borings—New York	Feb. 7
Feb. 15	Shaft Superstructure—New York, N. Y.	Feb. 7
Feb. 21	Bulkhead—Bayonne, N. J. Adv. Feb. 14.	Feb. 14
Feb. 21	Retards—Missouri	Feb. 14
Feb. 23	Dike, Bulkhead, etc. — Plymouth, Mass. Adv. Feb. 7 and 14.	Feb. 7
Feb. 25	Sea Wall, Dock and Sewer—New Haven, Conn.	Jan. 31
Feb. 28	Stadium—Erie, Pa.	Feb. 14
Mar. 11	Rip Rap—Scotia, N. Y. Adv. Feb. 14.	Feb. 14
Mar. 15	Steel Hull, etc.—Portland, Ore. Adv. Feb. 14.	Feb. 14
Mar. 31	Hopper Dredge — Brisbane, Queensland, Australia	Nov. 1
Apr. 30	Headworks—Wellington, New Zealand	Dec. 13

MATERIAL AND EQUIPMENT

Feb. 15	Steam Rollers—New York, N. Y.	Feb. 7
Feb. 18	Curbstone—Detroit, Mich.	Feb. 14
Feb. 19	Road Maintenance Equipment —Texas	Feb. 7
Feb. 19	Ladders, Fir, Valves, etc.— St. Paul, Minn.	Feb. 14
Feb. 20	Portable Road Repair Outfit —Chicago, Ill.	Feb. 7
Feb. 20	Pipe—Harrisburg, Pa.	Feb. 14
Feb. 20	Fibre Conduit—Baltimore, Md.	Feb. 14
Feb. 20	Steam Roller—West New Brighton, N. Y.	Feb. 14
Feb. 21	Lumber and Steel—Sac City, Ia.	Feb. 14
Feb. 25	Hoisting Machinery and Equipment—Ft. Wayne, Ind.	Feb. 7
Feb. 25	Road Graders—Houston, Tex.	Feb. 14
Feb. 26	Supplies—Toronto, Ont.	Feb. 7
Mar. 3	Gravel Pit Machines — Manitowoc, Wis.	Feb. 14
Mar. 11	Freight Handling Equipment —Tampa, Fla.	Feb. 14
Mar. 19	Tractor—Benson, Minn.	Feb. 7

Where name of official is not given inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Fla., Daytona—See "Sewers."

Mich., Detroit—G. H. Fenkell, W. C. Hoad, C. W. Hubbell, T. A. Leisen and G. S. Williams, submitted a report to Bd. Water Comrs., East Jefferson Ave., recommending immediate development of new supply of 300 m.g. per day, to be taken from American channel of Detroit River at head of Belle Isle, then carried by gravity tunnels through city, at first to one, and finally to two new distributing stations, one in western and one in northwestern section of city, there to be filtered and delivered into mains. The Commission further recommends certain alterations at Jefferson Ave. Sta. to bring its output up to maximum point consistent with economical and effective operation, together with additions to distribution system required to deliver this increased output. Estimated cost of construction recommended $33,584,000.

Wis., Fond du Lac—Bd. Pub. Wks. soon takes bids 10,500 lin.ft. c.i. water pipe. G. H. Stanchfield, City Hall, engr.

Wis., Hurley—Rejected bids opened Nov. 13, water purification plant and pumping station at Lake Lavina. Now studying feasibility of deep wells as water supply source and will take new bids about Mar. 2. $60,000. J. H. A. Brahtz, 409 Metropolitan Opera House Bldg., St. Paul, engr. Noted Nov. 29.

Wis., Lancaster—See "Sewers."

Wis., Wauwatosa — See "Streets and Roads."

Ia., Des Moines — Plans extension to water plant, about 5,000 lin.ft. increase in galleries, feeder mains, pipe extension, meters, tools, etc. $350,000. K. C. Kostberg, city engr.

Minn., International Falls—Plans filtration plant. $25,000. J. Crossdale, clk.

Tex., Dennison—Plans dam at Waterloo Lake, settling basin at Randall and main extensions. $50,000. C. E. Hayden, city engr.

Tex., Irving—Making plans complete system. $25,000. Eng. Service Co., 1813½ Main St., Dallas, engrs.

Tex., Howe—Voted $17,500 bonds waterworks additions. Noted Jan. 10.

Okla., Guymon — Having surveys made new water plant on Beaver Creek, incl. pumping equipment, and 10,000 ft. 8 in. c.i. pipe. $25,000. Engineer not selected.

Okla., Heavener—Election soon to vote on $150,000 bonds new water supply, incl. filtering and pumping plants, storage reservoir and pipe line. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Dec. 6.

Okla., Nowata—Voted $75,000 bonds new filter plant, pumping equipment, pipe line and fire trench. Benham Eng. Co., 512 Gumbel Bldg., Kansas City, Mo., engrs. Noted Feb. 7.

Calif., Los Angeles — See "Industrial Works."

Ont., Ottawa — Bd. Control soon takes bids new pumping plant at Lemieux Island Sta. $15,000. A. F. Macallum, city engr.

Ont., Ottawa—Plans 4 mi., new mains and services, 20,000 ft. mostly 6 in. c.i. pipe, c.i. specials, hydrants, etc. $70,000. A. F. Macallum, city engr.

Ont., Toronto — Plans to extend water distribution system, 70,000 ft. 6 in. c.i. mains, hydrants, meters, etc. $274,300. R. C. Harris, city engr.

Ont., Toronto—Plans to install two 20 m.g. electric pumps at filtration plant. $31,580. R. C. Harris, city engr.

Ont., Welland — Had preliminary plans prepared waterworks systems, incl. c.i. mains, steel pipe, electric pump, filters, reservoir, elevated tank, etc. $600,000 to $700,000. Wells-Chipman, Mail Bldg., Toronto, engrs.

Ont., Woodstock—Plans to connect waterworks system with newly acquired springs at Sweaburg, incl. 6,000 ft. c.i. mains, 6 in. up, etc. $25,000. F. J. Ure & Sons, Woodstock, engrs.

BIDS DESIRED

Mass., Armory (Springfield P. O.)—Feb. 25, by Bd. Water Comrs. of Springfield. Municipal Water Wks., Municipal Bldg., one hundred and twenty-five 8-in. and fifteen 12-in. valves, double bell. H. M. King, supt.; adv. E. N.-R. Feb. 14.

Waterworks (Continued)

N. Y., Brooklyn—Feb. 19, by N. J. Hayes, comr. Water Supply, Gas & Electricity, Municipal Bldg., New York, mains in Stillwell and Warehouse Aves., West 5th, 6th, 8th, 10th, 12th, 15th, 16th, 19th, 21st, 23rd to 33rd inclusive, 35th, 36th and 37th Sts., here.

N. J., Wanaque—Mar. 3, by Boro Council, Boro Hall, water distribution system and reservoir. Runyon & Carey, 845 Broad St., Newark, engrs.; adv. E. N.-R. Feb. 14.

N. C., Wilmington — Feb. 16, at City Hall, approximately 108 tons 6 in. and 96 tons 8 in. Class C standard c.i. bell and spigot pipe, 6 tons 6- and 8-in. Class C, standard c.i. fittings, thirty 6 in. and four 8 in. iron body, bronze mounted, hub end single wedge gate valves, 17 fire hydrants with 6 in. connection, 4 ½ in. valve opening, 3 ft. depth bury, one 4 in. and two 2½ in. nozzles with Wilmington thread, for Water & Sewerage Dept. R. C. Cantwell, comr. Pub. Wks.

O., Dayton—Feb. 20, by Comrs. Montgomery Co., water supply system to be constructed in Overlook Sanitary Sewer Dist., 49,445 ft. 4- to 12-in. Class B c.i. pipe, 48,995 ft. 0-6 ft., 6-8 ft. and 8-10 ft. trench, etc.; in Belmont Sanitary Sewer Dist., section south of Watervliet Ave., 48,040 ft. 4- to 12-in. Class B c.i. pipe, 48,040 ft. 0-6 ft., 6-8 ft., 8-10 ft. and 10-12 ft. trench, etc.; in Belmont Sanitary Sewer Dist., section north of Watervliet Ave., 47,575 ft. Class B c.i. pipe, 44,575 ft. 0-6 ft., 6-8 ft., 8-10 ft. and 10-12 ft. trench, etc. $250,000. K. B. Allen, 401 Keith Bldg., engr.

Ill., Mt. Prospect—Mar. 18, by village, water mains, H. Ehart, clk. Consoer, Older & Quinlan, Inc., Marquette Bldg., Chicago, consult. engrs.; adv. E. N.-R. Feb. 14. Noted Dec. 13.

Minn., Minneapolis—Feb. 18, by F. S. Gram, city purch. agt., furnishing approximately 126 tons reinforcing steel for Water Dept. N. W. Elsberg, city engr.

Mo., Festus—Feb. 18, by C. W. Griffin, city clk., drilling 2 wells. This is first step toward construction of $175,000 waterworks and distribution system. J. P. Davis, Jefferson City, engr. Noted Dec. 6.

Wis., Tomah—Making plans 50,000 gal. steel water tank, 100 ft. steel tower, 460 ft. well, centrifugal pump, 300 g.p.m., engine and motor driven. $15,000. W. G. Kirchhofer, Dean Bldg., Madison, engr.

Tex., Dublin—D. H. Kiker, city secy., taking bids several miles mains, miscellaneous ditching, etc. $15,000. G. Anderson, Dublin, engr. Noted Sept. 13.

Calif., San Francisco—Feb. 20, by Bd. Pub. Wks., two 42-in., one 36-in. and four 20-in. gate valves for Hetch Hetchy Water Supply, for City and San Francisco Co. Bids will be taken for any one or all items. M. M. O'Shaughnessy, city engr.

Ont., Goderich—W. T. Murney, chn. com., extending intake pipe, 1,200 ft. c.i. and 1,300 ft. steel pipe, to Federal Constr. Co., Toronto, $52,750. Noted Jan. 24.

BIDS RECEIVED

O., Lorain—For 3 filter beds and clear water basin, from Ohio Eng. Co., 647 Bway., $30,342.

Tex., Dallas—Pumps in Oak Cliff Pumping Station from Amer. Well Works, 703 Jackson St., $11,014 and $13,219, Smith & Whitney, 2507 Commerce St., $11,575 and $12,280; motors from Westinghouse Electric Co., Magnolia Bldg., $2,462, $2,587, $2,628 and $2,768. Noted Jan. 31.

CONTRACTS AWARDED

N. J., Beach Haven—A. P. King, boro clk., 1 air compressor, to Sullivan Mchy. Co., 30 Church St., New York City, $1,918; 2 horizontal motor driven centrifugal water lift units and 2 vertical motor driven centrifugal sewage lift units, to W. H. Eagan & Co., Stephan Girard Bldg., Phila., $1,789 and $1,723 respectively; pipe lines, sewage pump pit and building, to F. H. Crammer, Beach Haven, $4,461. Noted Jan. 24.

Pa., Shamokin — Roaring Creek Water Co., addition to No. 6 reservoir increasing capacity from 600 m.g. to 1,400,000,000 gal. also 5 m.g. rein.-con. reservoir, to Gannett, Seelye & Fleming, 204 Locust St., Harrisburg, $300,000.

N. C., Wilkesboro—Water supply system, to W. A. Ebert, Latta Arcade, Charlotte, $35,716.

O., Cleveland—Stange—Walsh Co., (contractors), 2315 Fairmount Rd., sub let contract for superstructure of 1 story, 130 x 790 ft., brick and steel filtration plant, Baldwin Rd., to Hunkin-Conkey Constr. Co., Hunkin-Conkey Bldg., for City of Cleveland. Noted Nov. 15.

Minn., Little Falls—Elevated steel water tank, 200,000 gal. capacity, to Chicago Bridge & Iron Wks., 37 West Van Buren St., Chicago, $20,850; 1,600 ft. 6-in., 1,000 lin.ft. 8-in. and 2,000 lin.ft. 12-in. c.i. pipe, 7 gatevalves to U. S. Cast Iron Pipe Co., 122 South Michigan Ave., Chicago, $3,382; electric-driven pump to Allis-Chalmers Mfg. Co., 122 South Michigan Ave., Chicago, $1,515.

Minn., St. Peter—Steel tank, 75 ft. high, 51 ft. diam., to Chicago Bridge & Iron Wks., 37 West Van Buren St., Chicago, $23,450. Noted Dec. 6.

Ark., Clarksville—Waterworks improvements, to Woodward Constr. Co., Ponca City, Okla., $14,977.

Colo., Denver—For 22,000 ft. 36 in. Class B c.i. main from Federal Blvd. and West 2nd Ave. to Ashland Ave. Reservoir, to J. Everett Young Constr. Service, 1267 South Race St., $2.37 per lin.ft., additional for loose rock $2 for solid rock $5, total $52,-140 (date completion May 1, 1924). Noted Jan. 17.

California, Nevada and Utah—Western Pacific R.R. Co., Mills Bldg., San Francisco, appropriated $6,000,000 for 1924 improvements, portion of which will finance reballasting and laying new tracks on lines between Oakland, Calif. and Salt Lake City, Utah, replacing track on Loyalton branch with 70 lb. rail, depots, shops, yards, etc., at various points in California, Nevada and Utah; steel and concrete bridges to replace present wooden structures at Oroville, Calif., to exceed $25,000. J. W. Williams, ch. engr.

Sewers

PROPOSED WORK

Fla., Daytona—Having surveys made extension to sewers, water mains, paving and new sea wall. $600,000. Harrington, Howard & Ash, Orear Leslie Bldg., Kansas City, Mo., engrs.

Ky., Mayfield—Plans new sewerage system. To exceed $25,000. W. H. Brizendine, mayor.

O., Massillon—Stark Co. (Canton) plans sanitary sewerage system in large area southwest of here. $150,000 or more. Engineer not selected.

Mich., Flint—Election in spring to vote on $2,000,000 bonds for completion intercepting sewer, disposal plant, pumping station and force mains.

Wis., Lancaster—Making plans rebuilding 2 disposal plants and installing 500 g.p.m. motor and high speed industrial engine in waterworks plant. $25,000. W. G. Kirchogger, Dean Bldg., Madison, engr.

Wis., Wauwatosa — See "Streets and Roads."

Kan., Scandia—Soon takes bids grading and installing 12,175 ft. 8-in., 340 ft. 10-in. and 1,648 ft. 12-in. vitr. clay sewer, inlets, etc. $25,000. E. T. Archer & Co., New England Bldg., Kansas City, engr.

Kan., Hays—Having preliminary plans prepared 4,230 ft. cement block storm sewer. $54,000. A. W. Seng, city mgr.

Mo., St. Louis—Plans repairing and reconstructing worn out sewers $140,000, constructing Sect. B of River Des Peres sewer, $485,000. W. W. Horner, city engr.

Tex., Dallas—Election in April, $100,000 bonds, sanitary sewer extensions. E. A. Kingsley, city engr.

Okla., Newkirk—Plans 18,000 ft. sanitary lateral sewers. $25,000. H. E. Musson, Grain Exch. Bldg., Oklahoma City, engr.

California — Cities of Anaheim, Brea, Fullerton, Orange and Santa Ana plan joint outfall sewer. City of Brea's cost will run about $100,000. R. W. Phelps, engr. for city of Brea.

Calif., Claremont—Plans to vote on $30,-000 bonds sewerage system and disposal plant.

Calif., La Habra—La Habra Sanitary Dist. having plans prepared Elrod process sewerage system and treatment plant. To exceed $75,000. Elrod Eng. Co., Mills-Fraser Bldg., Santa Monica, engrs.

Ont., Toronto—Plans to expend $59,903 for sewers, $11,316 for penstock gales, $27,738 for low level interceptor, $7,526 for new Humus tanks for North Toronto and balance for alterations to various plants. R. C. Harris, city engr.

Ont., Toronto—Plans to expend $1,625,-150 for sewers this year, incl. new sanitary and storm sewers of tile, brick, concrete and blocks; also $104,000 for sewage disposal and pumping stations and several new pumps. R. C. Harris, city engr.

BIDS DESIRED

N. Y., Brooklyn—Feb. 20, by E. Riegelmann, boro pres., Boro Hall, manhole heads to Bureau of Sewers, also sewers in Empire Blvd., New Utrecht, Vandevoort and Hegeman Aves., East 9th, East 18th, East 7th, West 4th, 69th, Douglass and Junius Sts.

N. Y., Syracuse—Mar. 3, at office of Syracuse Intercepting Bd., 104 City Hall, bar screens and raking equipment, Contr. 41; machinery and equipment for sludge pumping station, Contr. 42; exterior wiring and lighting for sewage pumping works, Contr. 43; transformer sub-station Contr. 44; adv. E. N.-R. Feb. 14.

Pa., Phila.—Feb. 19, by Dept. Pub. Wks., Bureau Surveys, removing old sewer and building new sewer in Courtland St., 40,-000 cu.yd. excav., 1,268.35 ft. of 15 ft. brick sewer, 11,000 ft. yellow pine piles in place, etc. $300,000. G. H. Biles, dir. pub. wks.

Va., Richmond—Feb. 25, at office A. J. Saville, dir. Pub. Wks., segment block, terra cotta pipe and precast rein.-con. sewers. $725,000.

N. C., Edenton—Feb. 19, by E. I. Warren, mayor, 4,400 ft. storm sewer and appurtenances, 12-36 in. terra cotta and concrete pipe. $25,000. Blair & Drane, Commercial Bldg., Charlotte, engrs.

Ala., Russellville—Feb. 20, by W. R. Ramsay, mayor, 9 mi. 8- to 15-in. sanitary sewers, etc. R. L. Totten, B-M Bldg., Birmingham, consult. engr.

O., Akron—See "Streets and Roads."

O., Ashtabula—Feb. 21, at office of W. M. Cotton, city mgr., submerged outfall and river crossing, Contr. L. G. B. Gascoigne, 648 Leader-News Bldg., Cleveland, engr.; adv. E. N.-R. Feb. 14.

Wis., Milwaukee — Feb. 23, by J. H. Fowles, secy. Metropolitan Sewerage Comn. of Milwaukee Co., sewer extensions in Lake St. from 35th to 27th Sts. incl. 2,719 lin.ft. 15- to 18-in. terra cotta pipe, etc.; in Jackson Dr., Oklahoma, 26th and Western Aves. and in right-of-way to Pabst Ave., 3,717 lin.ft. 42 in. concrete sewer in tunnel, 3,102 lin.ft. 36 in. concrete sewer (1,405 ft. in tunnel), 2,666 lin.ft. 30 in. concrete sewer (1,600 ft. in tunnel), 608 vertical ft. standard manholes, 22 vertical ft. drop man holes. T. C. Hatton, c/o owner, engr.

BIDS RECEIVED

O., Cleveland—Cuyahoga Co., Jan. 30, trunk sewer in State Rd. Impvt. 10, from Gantose Constr. Co., Columbia Bldg., $297,-767 (250 days). Noted Jan. 31.

Minn., St. Paul — H. W. Austin, city purch agt.., Jan. 29, sewers in West 7th St. from Palmer St. to Albion Ave., 789 ft. 4-ft. and 75 ft. 36-in. sewer, 1,364 ft. 15- to 21-in. vitr. sewer pipe, 135 ft. Sect. A sandrock tunnel, manholes, drop shaft and catchbasins, from O'Neil & Preston, 608 Exch. Bank Bldg., $28,350. Noted Jan. 24.

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, Feb. 5, 505 ft. 10 and 12 in. vitr. clay sewer in Clifton Heights Sewer 4, from Riley Bros. Contg. Co., International Life Bldg., $2,251, engrs. est. $3,000; 6,505 ft. 8- to 27-in. vitr. clay and 1,725 ft. 36- to 66-in. brick in concrete or 2 ring segmental block sewer in Glaise Creek Sewer Dist. 19, also 1,065 ft. 8- to 21-in. vitr. clay sewer in Glaise Creek 23, from Higgins-Wall-Dyer Constr. Co., International Life Bldg., $46,943 and 3,725 respectively, engrs. est. $47,510 and $3,920 respectively; 2,100 ft. 12- to 24-in. vitr. clay sewer in Glaise Creek 24, from Hogan Constr. Co., 2120 Harris Ave., $7,789, $9,400. Noted Jan. 10.

CONTRACTS AWARDED

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sewers across Queens Blvd. intersecting various streets, to F. L. Paino, 572 1st St., Brooklyn, $224,543; Patterson Ave., to Necaro Co., Inc., 97 Court St., Brooklyn, $756,404; Astoria Ave., to J. Gallo, 203 Division St., Brooklyn, $19,800. Noted Jan. 17.

N. Y., New York — H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., sewers in Melville St., to M. Del Balso, 660 East 221st St., $48,151; Sedwick Ave., to F. Gabriel, $23,365. Noted Feb. 7.

Minn., Hibbing — Additions to sanitary sewers in South Hibbing, to Schirmer Bros., Hibbing, $50,707.

Ark., Clarksville — See "Streets and Roads."

Ark., Ft. Smith — Sanitary sewers in Impvt. Dist. 4, to Benson & Farrar, Ft. Smith, $36,438. Noted Feb. 7.

Calif., Long Beach — Santa Fe Storm Drain, portions Bennett, 7th, 6th, 10th Sts., etc., rein.con., to G. W. Kemper, Alhambra, $83,000. Noted Feb. 7.

Bridges

PROPOSED WORK

Fla., Jacksonville — Having plans prepared two rein.-con. bridges, steel draw spans, about 1,600 ft. long. $450,000. Harrington, Howard & Ash, 1000 Orear Leslie Bldg., Kansas City, Mo., engrs. Noted Jan. 3.

Kentucky—State Hy. Dept., Frankfort, plans 220 ft., 3 span steel superstructure, concrete substructure, over Licking River, and 80 ft. steel span, concrete substructure, over White Oak Creek, State Project 28, Morgan Co. J. S. Boggs, state highway engr.

Kan., Parsons—See 'Streets and Roads."

S. D., Chamberlain — State Hy. Dept., Pierre, plans 1,472 ft. high truss bridge over Missouri River, here, Federal Aid Project 165.

Tex., Cameron—Milam Co. making plans bridges over Little River ¼ mi. north of present McCown Bridge, 2 concrete piers, 2 structural steel spans, etc. $100,000. A. F. Mitchell, co. engr.

Tex., Greenville — See "Streets and Roads."

Tex., Houston — Making plans bridge over Brays Bayou in Hannann Park. $25,-000. J. C. McVea, city engr.

Wash., Tacoma — City and Pierce Co. having plans prepared and soon take bids 11th St. Bridge over Hylebos Waterway. $120,000. Strauss Bascule Bridge Co., 225 North Michigan Ave., Chicago, engrs. Noted Dec. 6.

California — State Hy. Comn., Sacramento, having plans prepared bridge over San Joaquin River to replace present Mossdale Bridge. Work includes elimination grade crossings under Southern Pacific R.R. tracks. To exceed $175,000. R. M. Morton, state highway engr.

Calif., Oroville—See "Railways" under California, Nevada and Utah.

Calif., San Jose—Having plans prepared rein.-con. bridge over Los Gatos Creek. $45,000 to $50,000. H. J. Brunnier, Sharon Bldg., San Francisco, consult. engr.

Ont., Lambton Mills—York Co., 57 Adelaide St. E., Toronto, plans 750 ft. steel bridge with 4 arches, 48 ft. roadway, and two 6 ft. sidewalks, over Humber River, here. $430,000. E. A. James, 57 Adelaide St. E., Toronto, engr.

BIDS DESIRED

Pa., Phila.—Feb. 19, by Dir. Pub. Wks., 216 City Hall, completing bridge at 40th St. over Pennsylvania R.R. tracks, floor and approaches. $110,000.

Florida—Feb. 26, by State Rd. Dept., Tallahassee, constructing bridges on following: Project 35 A, Rd. 4, three 24 ft. rein.-con. spans; Project 620, Rd. 4, two 24 ft. rein.-con. spans, or three 15 ft. treated timber spans, foregoing in St. Lucie Co.; Project 608, Rd. 4, Brevard Co., one 24 ft. and one 20 ft. rein.-con. spans, or two 15 ft. treated timber spans. J. L. Cresap, state highway engr.

Miss., Bay St. Louis—See "Streets and Roads."

Nebraska—See "Streets and Roads."

Nebraska—Feb. 26, by State Dept. Pub. Wks., Lincoln, 40 ft. through girder span bridge, 20 ft. roadway, at Sta. 510 plus 00 near Elmwood, on Federal Aid Project 153-C, Cass Co., 22,800 lb. reinforcing, 261 yd. concrete, etc., $28,000, also one 100 ft. and two 50 ft. pony trusses on Federal Aid Project 161, Saline Co., $64,000. R. L. Cochrane, Brownell Bldg., Lincoln, state engr.

Missouri—Feb. 21, by State Hy. Dept., Jefferson City 20 ft. rein.-con. slab span, etc. over stream, Wright Co.; three 25 ft. rein.-con. deck girder spans, etc., over Elk Fork, Randolph Co.; three 20 ft. rein.-con. slab spans, 2 concrete piers, etc., over Little Loose Creek, Osage Co.; one 40 ft. and two 30 ft. rein.-con. deck girder spans, 2 concrete piers, etc. over Macks Creek, and three 20 ft. rein.-con. slab spans and 4 rein.-con. bents, over Holder Branch, Camden Co. B. H. Piepmeier, state highway engr.

Tex., Greenville — See "Streets and Roads."

BIDS RECEIVED

North Carolina — State Hy. Dept., Raleigh, (**S. P. means State Project**), rein.-con. bridges and culverts on S. P. 472-B, Vance Co., from J. A. Marrow, Clarksville, Va., $38,973; S. P. 720, Caldwell Co., from H. H. Sherrill, Winston-Salem, $35,572; over Yadkin River on S. P. 610, Anson and Richmond Counties, from Hardaway Contg. Co., 909 Elizabeth Ave., Charlotte, $286,-660; over Deep River on S. P. 404-C, Chatham Co., from Yadkin Constr. C., Albemarle, $66,989. Noted Jan. 31, under "Buildings."

CONTRACTS AWARDED

Pa., Phila. — Philadelphia & Reading R.R., Reading Terminal, 324 ft. concrete trestle, Richmond St., Pier 18, to Snare Corp., 1524 Chestnut St. Noted Jan. 24.

Minn., Duluth—St. Louis Co., Bridge O.-2-26-1 on Shagawa Lake Rd., 75 ft. truss with standard abutments, 18 ft., to W. Gianati, Ely, $6,152; Bridge M. Y.-M.-6-26-1 on Pike River Rd., 165 ft. truss, 18 ft. wide, to Guaranty Constr. Co., 305 Essex Bldg., Minneapolis, $12,770; Bridge D. T. 5-16-1 on Roy Rd., 250 ft. long, and Bridge L.I-28-1 on Sturgeon Lake Rd., 60 ft. truss, to Chernus Constr. Co., 714 Plymouth Bldg., Minneapolis, $14,870 and $6,841 respectively. Noted Jan. 24.

Wyoming—State Hy. Comrs., Cheyenne, 21 small timber trestle bridges, small spans, (timber furnished by state), on Kemmerer-Marbleton Rd., to J. F. Turpin, Wheatland, $19,304. Total cost $60,000. Noted Jan. 31.

Idaho—Bureau of Highways, Boise City, 110 ft. concrete arch and 110 ft. concrete trestle (states design), across Coeur d'Alene River, Federal Aid Project 64-C, to Ryberg, McHugh & Cowley, Wallace, $19,473 and $9,154 respectively.

Calif., Los Angeles — See "Streets and Roads."

Calif., Weitchpec—Humboldt Co. (Eureka), reconstructing cable suspension bridge over Klamath River, here, incl. steel truss span, 385 ft. long, steel towers, to Padgett & Kelly, Eureka, $24,379. Noted Jan. 31.

Ont., Pembroke—Town Council, bridge over Muskrat River on St. Marys St., to Ontario Bridge Co., Crown Office Bldg., Toronto, $29,680.

Ont., Toronto—City will repair and maintain bridges and level crossings, incl. concrete work, paving, painting, etc., by day labor. $129,845. R. C. Harris, city engr.

Dam

PROPOSED WORK

Tex., Dennison—See "Waterworks."

Calif., Los Angeles — See "Industrial Works."

Que., Metis Lake — Quebec Streams Comn., Montreal, plans reservoir dam, here. $150,000. O. Lefebvre, 59 Notre Dame St., Montreal, engr.

BIDS DESIRED

N. J., Newark—Mar. 6, by North Jersey Dist. Water Supply Comn. of New Jersey, 20 Clinton St., Wanaque Dam. A. H. Pratt, ch. engr. M. R. Sherrerd, consult. engr.; adv. E. N.-R. Feb. 14.

Railways

PROPOSED WORK

West Virginia—See "Industrial Work" under Bluefield.

Kentucky—See "Industrial Works" under Whitesburg.

Kansas and Nebraska—Golden Belt R.R. Co., Hays, Kan., having preliminary plans prepared standard gauge railroad, using 60-lb. rails, macadam and gravel ballasted roadbed, first section, from Great Bend to Plainville, 70 mi.; second section from Plainville, Kan., to Republican Junction, Neb., 80 mi. $300,000 up. H. Freese Hays, Kan., engr.

Texas — See "Industrial Works" under Jacksonville.

Texas—Houston & Texas Central R.R. operated by Southern Pacific Lines, Southern Pacific Bldg., Houston, had plans prepared creating industrial district over area of 40 blocks, 16 mi. industrial trackage, at Dallas. $3,000,000. H. M. Lull, Houston, ch. engr. Texas lines.

California—See "Unclassified" under San Francisco.

Ontario—Toronto Transportation Comn., Ryrie Bldg., Toronto, plans double track electric street railway loops at Sherbourne and Parliament Sts., Toronto, 100 lb. rails, etc. $150,000. H. H. Couzens, ch. engr.

CONTRACTS AWARDED

North Carolina—Atlantic Coast Line Ry., Atlantic Coast Line Bldg., double tracking 27 mi. from Pembroke to Lotta, to Cornell-Young Co., 4th Natl. Bank, Macon, Ga.

Oregon—Southern Pacific R.R. Co., 65 Market St., San Francisco, Calif., grading approximately 11 mi. section of Natron-Cut-Off from Summitt to Oakridge, and constructing 2,000 ft. tunnel, to Utah Constr. Co., Phelan Bldg., San Francisco. Noted Jan. 31.

Ontario—Canadian Natl. Ry., New Union Sta., Toronto, will lay 64 mi. new 100 lb. rails, 39,000 cu.yd. ballast and 100,000 new ties between Glencoe and Windsor, by day labor. $500,000. A. F. Stewart, ch. engr.

Excavation, Drainage, Irrigation

PROPOSED WORK

Ga., Albany—Dougherty Co. voted $100,-000 bonds for drainage work.

BIDS DESIRED

Ia., Garner—Feb. 19, by Supervs. Hancock Co., cleaning out D. D. 6, Sect. 1 cleanout main ditch 55,000 cu.yd., Lateral 4, 9,200 cu.yd.; Sect. 2, 1,890 ft. 8- to 30-in. corrugated pipe, fifty-seven 6- to 15-in. intakes, 3 brick manholes, etc. J. D. Madison, aud.

Minn., Redwood Falls—Feb. 26, by L. P. Larson, aud. Redwood Co., County Ditch 64, Sect. 1, 21,500 lin.ft. main open ditch, 11,601 cu.yd. excav., $13,392; Sect. 2, 282,-821 cu.yd. excav., $33,938; Sect. 3, 211,183 cu.yd. excav., $25,341; Sect. 4, 80,535 cu. yd. excav., $9,664; Sect. 5, 40,655 lin.ft. 6- to 32-in. drain tile, 27 concrete box inlets, 448 lin.ft. 12-in. corrugated iron pipe, etc., $32,443. F. H. Anthony, Redwood Falls, engr

BIDS RECEIVED

Calif., Long Beach — City, dredging waterway between Recreation Park and Alamitos Bay, incl. 2,000,000 cu.yd., from United Dredging Co., Centrol Bldg., Los Angeles, $0.1683 yd.

CONTRACTS AWARDED

Mo., St. Louis—Bd. Pub. Serv., 208 City Hall, 5,657 ft. partially lined open channel, 40 ft. wide at bottom, 100 ft. at top, 20 ft. deep, closed sanitary sewer, 12- to 84-in. laterals, etc., for Sect. A, River Des Peres, to Higgins-Wall-Dyer Co., International Life Bldg., $324,452. Noted Feb. 7.

Ont., St. Catharines — J. W. Pugsley, secy. Dept. Rys. & Canals, Parliament Bldg., Ottawa, constructing Sect. 8, Welland Ship Canal, near Port Colborne, to A. W. Robertson Ltd. 260 St. James St., Montreal, Que., $10,528,215. Noted Jan. 17.

Streets and Roads

PROPOSED WORK

New York — State Hy. Dept., Albany, plans during 1924: 239.35 mi. new highways in 41 counties; reconstructing and resurfacing 297.19 mi. roads in 44 counties; surface treating 1,875.46 mi. roads in 57 counties. L. Grossman, highway comr.

N. Y., Syracuse—Sedgwick Farm Land Co., 401 Sunset Ave., making plans paving several streets, concrete or asphalt. A. G Card, civil engr.

N. Y., Tonawanda—Town Bd. at Village Hall, Kenmore, rejected bids Jan. 19, concrete paving, etc., Elmwood Ave. Will readvertise. G. C. Diehl, 577 Ellicott Sq. Bldg., Buffalo, town engr. Noted Jan. 10.

Pa., Clearfield—Plans 4,500 ft. concrete paving and curbing on Cherry, Front, 4th, Market Sts. and Gulich Ave., 20, 26 and 28 ft. wide, also 1,700 lin.ft. 8 in. terra cotta sewer in Witmer St. $40,000. E. W. Hess, boro. engr.

W. Va., Huntington—Plans grading and paving Vernon, Court, Vinson, Wayne, 5th, 19th and Elm Sts., 14th Ave., Bradley and 5th St. Rds. and various alleys. A. R. Hunt, city clk.

North Carolina — State Hy. Dept., Raleigh, received no bids grading concrete or asphaltic paving 6.85 mi. State Project 111, 9 ft., Camden Co. $144,200. Will readvertise soon. C. M. Upham, highway comr Noted Jan. 17.

Fla., Daytona—See "Sewers."

Fla., Jacksonville — Plans paving and curbing South West 6th St. from 5th to 6th and 16th Aves., 36 ft., $45,832; South West 6th St. from 2nd to 5th and 12th to 16th Aves., 36 ft., $34,178; North West 3rd Ave. from 11th Terrace to 20th St., 36 ft., $38,112; North West 3rd Ave. from 12th to 17th Ave. and North West 20th Ave. from Miami to 2nd Ave., 36 ft. and 43 ft., $33,526; North West 2nd Ave. from 20th to 36th Sts., 136 ft., $56,408; South West 4th and South West 5th Sts. from 12th to 17th Aves., 25 ft., $37,712; South West 2nd and South West 7th Sts. from 12th to 17th Aves., 25 ft., $37,380; South West 13th Ave. from 8th to 13th Sts., South West 14th Ave., Flagler to 8th St., 22 and 25 ft., $28,252; South West 13th Ave. from 8th to 13th Sts. and South West 13th Ave. from Flagler to 8th Sts., 22 and 31 ft., $30,-861; portion South West 16th, South West 17th, South West 6th and 17th Aves. W. E. Sheddon, Jacksonville, engr.

Ala., Birmingham—Alabama State Bond Comn. will sell $7,000,000 bonds Mar. 17, giving total sum incl. Federal funds of $9,105,000 to be used for state highway work during next 12 months. W. S. Keller, state highway engr.

Streets and Roads (Continued)

Miss., Belonzi—Making plans and takes bids in March, paving 36,000 sq.yd. with concrete, sheet asphalt, brick or rein.-con.; 30,000 lin.ft. curb and gutter and 4½ mi. gravel surfacing. $150,000. D. M. Forester, city engr.

Miss., Greenwood — Carroll Co. having preliminary plans prepared grading and gravel surfacing 8 mi. Rd. Dist. 4, 18 ft. $85,000. Abbott Eng. Co., Greenwood, engrs.

Tennessee — State Dept. Hys. & Pub. Wks., Nashville, plans surfacing, probably concrete (cement) 15 mi. Manchester-Beach Grove Rd., 9 ft. Coffee Co.; having surveys made grading and structures on 4 mi. road from Bridgeport Rd. to Federal Aid Project 23, 18 ft., Cocke Co., probably limestone base 10.5 mi. Shelbyville-Lincoln Co. Line Rd., 16 ft. Bedford Co., 7 mi. Woodburg-Warren Co. Line Rd., 18 ft., Cannon Co.; constructing 4 mi. Morristown-Grainger Co. Line Rd., 18 ft., Hamblen Co., probably cement concrete base with bituminous concrete surface 3.7 mi. road from Nashville City limits toward Gallatin, 24 ft., Davidson Co.; soon takes bids grading and constructing probably cement concrete 8.5 mi. Blountsville-Bristol Rd., 18 ft., Sullivan Co., grading 8 mi. Clinton-Knox Co. Line Rd., 18 ft., Anderson Co. J. G. Creveling, highway comr. Noted Jan. 17.

Kentucky—State Hy. Dept., Frankfort, plans grading 10.16 mi. Frenchburg-Mt. Sterling Rd., 24 and 28 ft., State Project 28, Menifee Co. J. S. Boggs, state highway engr.

O., Akron — W. F. Peters, dir. Pub. Serv., rejected bids Jan. 28, grading and paving 2,000 ft. Aqueduct St., 30 ft., $28,-932. Will readvertise. E. A. Kemmler, Delaware Bldg., engr. Noted Feb. 7.

O., Alliance — Making plans improving about 1 mi. West Main St., 40 ft. $50,000-$75,000.

O., Cleveland—Cuyahoga Co. takes bids in spring paving Wallings, Minor and York Bennet Rds., $421,846; brick paving Highland Rd., $39,460. F. Lander, Court House, engr.

O., Lakewood—Plans grading, curbing and paving Lakewood Heights Blvd., Edgewater, Woodward, Athens, Waverly, Victoria and Belle Aves. $200,000. E. A. Fisher, City Hall, engr.

O., Lakewood — Takes bids in spring grading, curbing and paving Alger Rd., West Adams, Esther, Northwood, Cannon, Shaw, Phelps and Maite Aves. $175,000. F. A. Fisher, City Hall, engr.

O., Lisbon—Columbiana Co. plans surfacing 4 mi. Wellsville-Salineville Rd., 18 ft., $80,000; rebuilding 1 mi. Kensington-Hanover Rd., 20 ft., macadam or concrete, $30,000. L. C. Kirk, Lisbon, engr.

O., Lisbon—Columbiana Co. takes bids about Mar. 1, improving 1 mi. East Liverpool-Youngstown State Highway, Fairfield Twp., $81,749 for concrete and $80,081 bituminous macadam; resurfacing 1 mi. road in Liverpool Twp., bituminous macadam, $35,000. J. A. George, East Liverpool, engr.

O., Warren—Plans brick paving 1 mi. Locust and McKinley Aves., 50 ft., $85,000; improving ¾ mi. Kinsman Ave., 50 ft., $60,000.

Ill., Belleville—Soon takes bids grading and surfacing with rein.-con., brick on concrete, or asphaltic concrete, 44,000 ft. various streets, 28 ft. average width. $429,667. C. A. Heinzelmann, City Hall, engr.

Ill., Berwyn—Plans grading and paving with concrete, asphaltic concrete or brick on concrete, 16,000 ft. various streets. $165,000. J. J. Kearney, City Hall, engr.

Ill., Freeport—Plans grading and rein.-con. surfacing Bailey Park Dist. $40,000. A. F. Stanley, City Hall, engr.

Ill., Woodriver—Soon takes bids 152,500 sq.ft. cement concrete sidewalks on cinders in West Central Sidewalk Dist., $29,104; also watermains, $9,703. Address city engineer.

Wis., Wauwatosa — Making plans concrete paving, concrete walks, grading, watermains and sewers in subdivision, 61st St. and Blue Mound Rd. $25,000. R. H. Smith, 410 Berlin Arcade, Milwaukee, engr.

Kan., Ft. Scott—Bourbon Co. preparing plans and takes bids soon brick, concrete or bituminous macadam paving 3.9015 mi. Federal Aid Project 208, 18 ft. B. Boyle, Ft. Scott, engr.

Kan., Kansas City—Wyandotte Co. plans grading and concrete surfacing 1.72 mi. Wolcott Rd., Sect. B, 16 ft. O. K. Williams, co. engr.

Kan., Marion—Marion Co. plans 8.75 mi. Federal Aid Project 218, Sect. A, 29½ ft. To exceed $25,000. E. C. L. Wagoner, 608 Kemper Bldg., Kansas City, Mo., engr.

Kan., Parsons — Making preliminary plans grading and gravel surfacing 2 mi. North 21st and East Main Sts., 18 ft., also for steel and concrete bridge over Neosho River. $180,000. J. Shidler, Chanute, engr.

Kan., Troy — Doniphan Co. preparing plans concrete or brick paving 1.03 mi. Federal Aid Project 169, Sect. H. T. Parker, co. engr.

Kan., Washington—Washington Co. completed plans and soon takes bids grading 11.5 mi. Federal Aid Project 211, 30 ft. E. C. L. Wagoner, 609 Kemper Bldg., Kansas City, Mo., engr. Noted Sept. 13.

Nebraska—State Hy. Dept., Lincoln, soon takes bids grading and gravel surfacing Federal Aid Project 216, Merrick Co., $60,000, Federal Aid Project 208, Nemaha and Richardson Counties, $56,000, and Federal Aid Project 225, Lancaster Co., $22,000. R. Cochrane, state engr.

Neb., Hastings — Plans 2 mi. paving, various types. $58,000. P. T. Naylor, city engr.

South Dakota—State Hy. Dept., Pierre, plans to grade 29 mi. Federal Aid Project 95, from Faulkton to Zell, Faulk Co., 12 mi. Federal Aid Project 176, from Watertown to Hetland, and 14 mi. Federal Aid Project 171, from Sisseton to Browns Valley, Roberts Co. F. D. Hudgins, ch. engr.

Mo., St. Louis—Plans grading and concrete paving 9,000 sq.yd. Delor St. $41,-700. W. W. Horner, City Hall, engr.

Ark., Little Rock—Pulaski Co. soon takes bids grading and hard surfacing 95 mi. roads, 18 ft. average. $3,000,000. G. H. Sykes, Little Rock, engr.

Tex., Anson—Jones Co. election Mar. 1, $200,000 bonds bituminous macadam surfacing Highway 83. Another election in northern part of county ordered Mar. 8. $600,000 bonds. J. F. Lindsey, co. judge. Noted Dec. 6.

Tex., Corsicana—Making plans paving 10 blocks 10th, East 6th and 9th Sts., various types. $35,000. W. W. McClendon, city engr.

Tex., Graham—Young Co. election Mar. 1. $650,000 bonds hard surfacing in Rd. Dist. 1. W. H. Reeves, co. judge. Noted Jan. 24.

Tex., Grandview—Making plans permanent paving 5 blocks, brick or bituminous. $25,000. Elrod Eng. Co., 3124 Elm St., Dallas, engrs.

Tex., Greenville—Hunt Co. had plans prepared soon takes bids gravel surfacing on macadam, and bituminous topping 5.3 mi. State Highway 39, 15 ft. $75 000; grading, gravel surfacing and bridging 2.6 mi. State Highway 1, 15 ft., $40,000. J. D. Metcalfe, resident engr.

Tex., Huntsville—Making plans paving 1 mi. Burton and Tyler Sts., bituminous. Baker & Von Zuben, Ellison Bldg., Ft. Worth, engrs. Noted Jan. 10.

Tex., Jasper—Jasper Co. making plans grading, gravel surfacing, etc. 5.34 mi. State Highway 45, 16 ft. $45,000. C. D. Hunter, co. engr.

Tex., Kountze—Hardin Co. election Feb. 9. $125.000 bonds hard surfacing 25 mi. in Road Dist. 1, 16 ft. G. C. Brown, co. engr.

Tex., Seguin—Guadalupe Co. plans election to vote on over $150,000 bonds highway improvement. Address Co. Comrs.

Tex., Sinton—San Patricio Co. election Feb. 16, $25,000 bonds hard surfacing Aransas Pass to connect with Rd. Dist. 1 leading into Gregory. Address Co. Comrs.

Tex., Vernon—Wilbarger Co. voted $150,-000 bonds improving Colorado Gulf Highway and laterals in Harold Rd. Precinct. $150,000. J. B. Nabers, co. engr. Noted Jan. 17.

Okla., Ada—Plans grading and paving South Rennie and South Constant Sts., 5,200 sq.yd. concrete, 4,100 lin.ft. curbing, etc. $27,500. H. S. Darlington, Ada, engr.

Okla., Lindsey—Soon takes bids grading and rein.-con. surfacing 3,500 ft. streets, 26 ft. $32,000. V. V. Long & Co., 1300 Colcord Bldg., Oklahoma City, engrs. Noted Dec. 13.

Okla., Oklahoma City — Oklahoma Co. soon takes bids concrete paving 3 mi. road south west of city, 18 ft.; 3½ mi. Edmond Rd., 18 ft. R. S. James, co. engr.

Colo., Denver—Plans asphalt paving 12 blocks West 33rd Ave. Paving Dist., $45,064; 12 blocks North Denver Paving Dist. 6, $49,555; 14 blocks North Denver Paving Dist. 5, $46,435. A. K. Vickery, City Hall, engr.

California—State Hy. Comn., Sacramento, plans improving highway between Redwood City and Palo Alto, San Mateo Co., incl. widening and paving. To exceed $100,000. R. M. Morton, state highway engr.

California — State Hy. Comn., Sacramento, having plans prepared paving with asphalt concrete surface and shoulders, 3.7 mi. between Milpitas and Coyote Creek, Santa Clara Co. R. M. Morton, state highway engr.

California — State Hy. Comn., Sacramento, plans grading and paving 5 mi. Elk Grove and Comsumnes River Rds., to exceed $100,000; 4 mi. between Manteca and Turner, to exceed $100,000; 7 mi. highway between French Camp and Mossdale, $150,-000; 4.7 mi., 20 ft. wide, between south boundary of San Joaquin Co. and Calla, to exceed $100,000, all foregoing in San Joaquin Co.; paving through Corning, Tehama Co., to exceed $50,000. R. M. Morton, state highway engr.

Calif., Alhambra—Plans improving Hellman Ave. between east and west city limits, 6 in. concrete, curbs and gutters. To exceed $25,000. T. B. Downer, city engr.

Calif., Covina—Plans paving all unpaved portion streets in city limits. To exceed $25,000. F. G. Dessery, city engr.

Calif., Fresno — City Council will take new bids improving portion Lewis Ave., 118,194 sq.ft. grading, 86,824 sq.ft. asphalt, 5,281 lin.ft. concrete curb, 8,973 sq.ft. concrete gutter, 24,814 sq.ft. cement walks, etc. Former bids rejected. W. Stranahan, city engr. Noted Nov. 8.

Calif., Huntington Beach — Had plans prepared grading, surfacing, curbing, walks and lighting system on portion 5th St., 4 in. asphaltic concrete with 2 in. Willite surface, portion 15th and 10th Sts., 3 in. asphaltic concrete with 2 in. Willite surface.

Calif., Monterey—Having plans prepared improving Laine, Prescott, Bilden, Spencer Sts., etc., grading, paving, 5 in. waste quarry rock, concrete curbs and gutters, etc. To exceed $25,000. H. D. Severance, city engr.

Calif., Oakland — Had plans prepared improving Park Blvd. Rd., redressing and oiling 35,915 sq.ft. existing macadam, 29,-932 ft. of 8 in. vitr. pipe conduit. W. W. Harmon, city engr.

Calif., Oakland—F. T. Wood & Co., 417 15th St., having plans prepared improving 25 acre tract, oil macadam, concrete curbs, gutters, sidewalks, 8 in. sewers, etc. To exceed $50,000. Private plans.

Calif., Oroville—Butte Co. had plans prepared improving Oroville-Gridley Rd., 28,-500 sq.ft. Portland concrete shoulders, 1,080 tons broken stone surfacing, 50 tons asphaltic oil, Grade E. County will furnish broken stone, stone screenings, concrete, sand and asphalt oil, Grade E. H. H. Hume, co. rd. engr.

Calif., Oroville—Butte Co. had plans prepared improving 3.46 mi. Biggs-Princeton Rd., 6,500 tons broken stone, 236 tons E asphalt road oil; 7.87 mi. Gridley-Colusa Rd., Sta. 40x09 to Sta 456x00, 15,500 tons broken stone, 470 tons E asphalt. County will furnish stone and asphalt for both. H. H. Hume, co. rd. engr.

Calif., Richmond—Plans to expend $500,-000 for street improvements during current year. H. Chapman, city engr.

Calif., Santa Ana—Orange Co. had plans prepared improving 3 mi. Chapman Ave., Rd. Impvt. Dist. 27, 3,000 cu.yd. excav., 6,637 cu.yd. concrete pavement.

Calif., Turlock—Had plans prepared improving 5th St. and Mitchell Ave., 85,000 sq.ft. 3 in. black base with 1½ in. Warrenite surface, curbs, etc. H. Hall, city engr.

Ontario—Dept. Provincial Highway, 110 University Ave., Toronto, plans 20 mi. macadam and concrete road construction and maintenance on provincial highways in Simcoe Co., $169,980, also 40 mi. macadam asphalt and concrete road on highways in Perth Co., $362,360. G. Hogarth, ch. engr.

Ont., Chatham—Kent Co. plans 35,000 sq.yd. concrete on Creek Rd., Raleigh Twp., and Chatham-Dover town line. $100,000. W. G. McGeorge, Chatham, co. engr.

Ont., Ingersoll—Plans concrete pavement on Charles St. E. $40,000. Prices wanted on all materials.

Ont., Ottawa—Suburban Rds. Comn., 1 Findlay Ave., plans 3 mi. bituminous macadam on Richmond Rd., 5 mi. grading and 3 mi. gravel resurfacing on Merivale Rd., 1½ mi. asphalt on River Rd., bituminous surface and grading on Metcalfe Rd., 1½ mi. macadam surface on Russell Rd., and 1 mi. asphalt on Montreal Rd. $170,000. A. K. Hay, 1 Findlay Ave., engr.

Ont., Ottawa—Bd. Control soon takes bids reconstructing asphalt pavement on Laurier Ave. W. $30,000. A. F. Macallum, city engr.

Ont., Pembroke—Plans concrete curbing, guttering and paving ½ mi. Miller St., bitulithic on concrete. $30,000. J. P. Howe, Town engr.

Ont., St. Thomas—Plans 5,500 sq.yd. asphalt or concrete pavement on Moore St. $25,000. W. C. Miller, city engr.

Ont., St. Thomas—Elgin Co. plans to expend $145,430 for 7-8 mi. road, mostly macadam and concrete. J. Bell, Court House, engr.

Ont., Toronto—Dept. Pub. Wks., City Hall, plans to expend $743,216 for repairing and maintaining city pavements and sidewalks and renewals to brick, stone, asphalt, macadam, bituminous concrete and

Streets and Roads (Continued)

dirt roads, also $672,356 for new pavements, 150,000 sq.yd., mostly asphalt and bituminous. R. C. Harris, city engr.

Ont., Toronto—Plans asphalt pavements on Queen St. $7,626, granite block pavement in subway on King St. $4,951, asphalt surface on Queen St. and Don Valley Bridge $7,430, concrete platforms at trolley stops $10,000, retaining walls on Davenport Rd. $2,075, Keele St. $7,766, and widening King St. at Sunnyside Ave. $2,517. R. C. Harris, city engr.

Ont., Toronto—Plans to widen pavements on various streets, incl. 50,000 sq.yd. granite block, asphalt, concrete or bituminous concrete. $500,000. R. C. Harris, city engr.

Ont., Toronto—Toronto and York Co. Rds. Comn., 57 Adelaide St. E., plans permanent pavements on 3 mi. Queen St., Etobicoke Twp., 2½ mi. Dawes Rd., East York Twp., 2½ mi. Fifth Concession, North York Twp., 1½ mi. Bathurst St., York Twp. $300,000 to $400,000. E. A. James, 57 Adelaide St. E., engr.

BIDS DESIRED

N. Y., Brooklyn—Feb. 20, by E. Riegelmann, boro pres., Boro Hall, permanent asphalt paving East 38th St., Rutherford Pl., Sheffield and Brooklyn Aves.; curbing and flagging Ave. M, Ovington Ave., and Rutherford Pl.; curbing and asphalt paving West 10th St.; grading and flagging 79th St., etc.

N. Y., Fairport—Mar. 11, by R. S. Fuller, comr. Canals & Waterways, Albany, widening roadway of West Ave. approach on lift bridge at Main St., here, Contr. 216; adv. E. N.-R. Feb. 14.

Pennsylvania—Mar. 6, by Dept. Highways, Harrisburg, constructing 48 mi. road in 24 counties. P. D. Wright, secy.; adv. E. N.-R. Feb. 14.

Pa., Phila.—Feb. 18, by Dept. Pub. Wks., Bureau Highways, asphalt pavement on Luzerne St., Schedule A, asphalt repaving on Chelten, Sprague, Wharton and 54th Sts., Schedule B, redressed granite block repaving on Callowhill, Frankford, Front, Germantown, 7th and 60th Sts., Schedule C. G. H. Biles, dir. pub. wks.

Pa., Verona—Feb. 25, by Boro Council, improving 1st Ave., 3,500 cu.yd. grading, 5,300 sq.yd. paving and 2,600 lin.ft. curb, Spruce St., 2,150 sq.yd. paving, 2nd St., 2,700 cu.yd. grading, 5,400 sq.yd. paving, 2,700 lin.ft. curb. Douglass & McKnight, 912 Columbia Bank Bldg., Pittsburgh, boro engrs.

W. Va., Williamson—Feb. 25, by Mingo Co., improving 6 mi. Rockhouse Fork Rd. and 0.76 mi. Williamson-Burch Rd., 31,400 lin.ft. clearing and grubbing, 20,000 cu.yd. excav., 12,000 cu.yd. channel change, 8,000 cu.yd. excav. borrow, 40 cu.yd. concrete, 2,100 cu.yd. creek gravel, etc. L. G. Gray, pres. Court.

Alabama—Mar. 3, by State Hy. Dept., Montgomery, grading and surfacing 5.399 mi. Decatur-Moulton Rd., Project 119, Sect. A and C, Lawrence Co., 22,841 cu.yd. earth and 322 cu.yd. rock excav., 346.5 cu.yd. concrete, 50,682 sq.yd. 2½ in. bituminous macadam, penetration method, 12,800 cu. yd. crushed stone base. W. S. Keller, state highway engr.

Miss., Bay St. Louis—Feb. 26, at Office Chancery Clerk Hancock Co., grading, gravel surfacing and bridging 11.931 mi. roads, 18 ft. $176,433. H. C. Dietzer, c/o State Highway Dept., Jackson, engr.

Louisiana—Feb. 21, by State Hy. Comn., Reymond Bldg., Baton Rouge, 7.37 mi. State Project 387-B, Opelousas-Kinder Highway, 3.19 mi. State Project 387-A, Opelousas-Kinder Highway, and 2.65 mi. State Project 388, Eunice-Mamou Highway. J. M. Fourmy, ch. engr.

S. C., Bishopville—Feb. 21, by Comrs. Lee Co., 2.6 mi. State Route 34, Federal Aid Project 67-C, 44,206 cu.yd. excav., 6,110 cu.yd. clay surfacing; also 3 bridges over Lynches River, involving 175 cu.yd. dry and 460 cu.yd. wet excav., 3,540 lin.ft. untreated and 1,500 lin.ft. treated piling.

O., Akron—Feb. 25, by W. F. Peters, dir. Pub. Serv., grading, laying sidewalks, sewers and cindering 2,850 cu.yd. Spring St. and McKinley Ave., $44,000; grading, laying sidewalks and cindering 825 cu.yd. Mildred Ave., $14,000; grading, laying sidewalks and paving 3,305 ft. Big Falls Ave., Allyn and Power Sts., 24 ft., vitr. brick or asphalt, $74,000; grading and paving 1,165 ft. South Arlington St., 44 ft., vitr. brick or asphalt, $34,000. Noted Feb. 7.

Wis., Green Bay—Feb. 20, by Brown Co. Road & Bridge Com., 4 mi. Upper De Pere Rd., 18 ft., concrete; 3½ mi. Old State Rd., 3 mi. Dixon Rd., 4½ mi. Greenleaf-Lark Rd., all 16 ft. concrete. G. J. Cormier, comr.

Nebraska—Feb. 26, by State Dept. Pub. Wks., Lincoln, 21.6 mi. Federal Aid Project 7-C, Adams Co., 278,823 sq.yd. 2 in. gravel, $61,300; 6.542 mi. road, Federal Aid Project 169, Adams Co., 28,200 cu.yd. excav., $21,000; Federal Aid Project 210, Saline Co., 16,067 sq.yd. 7 in. concrete, 36,400 cu.yd. excav., also one 32 ft. and two 20 ft. I-beam bridges, one 40 ft. transverse girder bridge; Federal Aid Projects 98-B and 98-C, Saline Co., 17,640 yd. gravel; 4.03 mi. Federal Aid Project 55 B, Saline Co. 52,200 sq.yd. 2 in. gravel; 13.8 mi. Federal Aid Project 7-B, Clay Co., 178,992 sq.yd. 2 in. gravel, $35,800; 5.218 mi. earth road, Federal Aid Project 164-D, Thayer Co., 52,100 cu.yd. excav., and one 22 ft. and one 16 ft. I-beam bridges, $31,000; 4.022 mi. earth road, Federal Aid Project 164-C, Nuckolls Co., 33,000 cu.yd. excav., $17,000. R. L. Cochrane, state engr.

Nebraska—Feb. 27, by State Hy. Dept., Lincoln, 6.43 mi. Federal Aid Project 139-G, 41,300 cu.yd. excav., etc., Antelope Co.; 4.9 mi. Federal Aid Project 110-A, 56,813 sq.yd. 4 in. and 59,653 sq.yd. 2 in. gravel, one 100 ft. steel truss with one 32 ft. and one 22 ft. approaches, Boyd Co.; 13.37 mi. Federal Aid Project 172, 156,551 sq.yd. 4 in. gravel surface, Cummings Co.; 8.23 mi. Federal Aid Project 213, 19,000 cu.yd. excav., 96,270 sq.yd. gravel, etc., Dawes Co.; 9.44 mi. Federal Aid Project 139-H, 71,000 cu.yd. excav., etc., Madison Co.; 3.59 mi. Federal Aid Project 50-D, 33,600 cu.yd. excav., etc., Nance Co.; Federal Aid Project 87-B, 23,522 sq.yd. 4 in. gravel surface, Stanton Co.; 7.31 mi. Federal Aid Project 49-F, 85,000 cu.yd. excav., etc., Thurston Co.; Federal Aid Project 70-C, 22,200 cu.yd. excav., etc., Wayne Co. R. L. Cochrane, state engr.

Nebraska—Feb. 28, by State Hy. Dept., Lincoln, 7.638 mi. Federal Aid Project 206, 37,700 cu.yd. excav., 98,600 sq.yd. gravel surface, etc., Chase Co.; 17.14 mi., Federal Aid Project 198-A, 85,400 cu.yd. excav., and one 20 ft. I beam bridge, etc., Box Butte Co.; 4.33 mi. Federal Aid Project 149-A, 27,800 cu.yd. excav., 10,770 sq.yd. gravel, and one 24 ft. I beam bridge, Cheyenne Co.; 9 mi. Federal Aid Project 186-A, 107,724 sq.yd. 3 in. gravel, Kimball Co.; 3.22 mi. Federal Aid Project 174, 37,640 sq.yd. 4 in. gravel, Buffalo Co.; Federal Aid Project 121-A, 143,314 sq.yd. 2 in. gravel, Perkins Co.; 7.0145 mi. Federal Aid Project 79-B, 40,200 cu.yd. excav., 47,153 sq.yd. 4 in. and 35,151 sq. yd. 2 in. gravel surface, Morrill Co.; Federal Aid Project 68-C, 8,700 cu,yd. earth and 400 cu.yd. rock excav., one 40 ft. steel truss bridge, etc., Hitchcock Co.; 7.939 mi. Federal Aid Project 68-B, 43,600 cu.yd. excav., 2,576 sq.yd. concrete pavement 7 in. thick, 43,988 sq.yd. gravel surface 4 in., Red Willow Co.; 3.705 mi. Federal Aid Project 117-B, 15,800 cu.yd. excav., 26,753 sq.yd. 2 in. and 18,000 sq. yd. 4 in. gravel surface, also 2.08 mi. Federal Aid Project 117-A, 24,445 sq.yd. 4 in. gravel, Garden Co. R. L. Cochrane, Brownell Bldg., Lincoln, Engr.

Neb., Omaha—Feb. 19, by City Clerk, City Hall, grading, paving and curbing, etc. 150,000 sq.yd. streets and alleys, various materials. $300,000. H. Beal, City Hall, engr. Noted Feb. 7.

Missouri—Feb. 21, by State Hy. Dept., Jefferson City, gravel surfacing 190,040 sq. yd. roads in Newton, Montgomery, Osage, Callaway and Monroe Counties. B. H. Piepmeier, state highway engr.

Mo., St. Louis—Mar. 4, by Bd. Pub. Serv., 208 City Hall, paving twelve 15 ft. alleys, 14,735 sq.yd. 7 in. concrete. $45,170. W. W. Horner, city engr.

Tex., Corsicana—Mar. 11, paving 50 blocks. W. McClendon, city engr.

Tex., Electra—Feb. 25, paving 40 blocks, various types. $100,000. Elrod Eng. Co., 312 Elm St., Dallas, engrs.

Tex., Galveston—Mar. 1, raising city grade in West End in area from 40th to 48th Sts. south of Bway. $1,250,000. C. A. Holt, Jr., city engr.

Tex., Greenville—Feb. 26, by O. P. McWhirter, judge Hunt Co., gravel sub-base, waterbound macadam base and inverted penetration top on 5.3 mi. State Highway 39, State Aid Project 379, 15 ft., $73,000; grading, gravel surfacing and 1,200 ft. creosoted timber trestle on 2.6 mi. State Highway 1, 16 ft., $68,000. J. D. Metcalfe, resident engr.

Okla., Chickasha—Feb. 19, by J. R. Wellborn, city clk., grading and paving 8 blocks Kansas Ave., 8,600 sq.yd. concrete, 4,800 lin.ft. curbing, 2,750 cu.yd. excav. $33,000 J. C. Milliken, Chickasha, engr.

Okla., Oklahoma City—Feb. 18, by W. A Jackson, clk. Oklahoma Co., paving 3 mi Eastern Ave., 2 mi. G Ave., 52,000 sq.yd. asphalt, brick or concrete. R. S. James, Court House, engr.

Calif., Los Angeles—Feb. 25, by Supervs. Los Angeles Co., improving 2½ mi. Baker Ave., 7,800 cu.yd. excav., removing 3,500 cu.yd. old macadam, shaping 65,300 sq.yd. roadbed, 35,700 sq.yd. 6- to 8-in. concrete, 34,000 sq.yd. subbase.

BIDS RECEIVED

N. Y., Brooklyn—E. Riegelmann, boro pres., Boro Hall, Feb. 6, asphalt paving (1) Bay 28th St. (2) Bay 38th St. (3) Blake Ave. (4) East 7th St. (5) East 34th St. (6) Highland Ave. (7) Homecrest Ave. (8) Lefferts Ave. (9) Union St. (10) West 8th St. (11) 12th Ave. (12) 40th St. (13) 57th St. (14) 70th St. (15) 81st St., curbing and asphalt paving (16) Elmore Pl. (17) Ave. I (18) West 7th St., grading, curbing and flagging (19) East 7th St. (20) East 18th St. (21) East 34th St. (22) East 37th St. (23) Lenox Rd. (24) Ave. M (25) Montgomery St. (26) West 3rd St. (27) West 8th St. (28) West 13th St. (29) 12th Ave. (30) 57th St. (31) 70th St. (32) 76th St. (33) 82nd St., paving with 2nd hand granite (34) Jerome Ave., curbing and laying sidewalks on (35) Liberty Ave., grading, curbing and laying sidewalks on (36) Ave. S, paving and laying sidewalks, etc., on (37) 70th St., sodding malls and spaces on (38) Kings Highway, from Brooklyn Alcatraz Asphalt Co., 407 Hamilton Ave., (1) $8,181 (2) $5,477 (4) $9,247 (6) $14,079 (7) $9,935 (10) $8,474 (11) $3,395 (12) $8,146 (13) $8,357 (14) $10,863 (15) $8,745 (16) $10,660 (17) $16,259 (18) $9,767; Borough Asphalt Co., 1301 Metropolitan Ave., (3) $4,048 (5) $8,331 (8) $23,444 (9) $4,724; T. B. Scott, 671 Halsey St., (19) $3,963 (20) $7,853 (21) $4,356 (27) $4,571; A. E. Castle, 3313 Tilden Ave., (22) $7,056 (37) $1,338; W. G. Grimm, (23) $3,335 (24) $1,916 (26) $1,340 (35) $1,108; C. Bennett Contg. Co., 414 Rutland Rd., (25) $16,969; F. G. M. Mandatto, 129 29th St., (28) $4,436 (36) $7,113; F. Persicano, 350 Fulton St., (29) $1,846 (33) $5,371; Galecor Contg. Co., 507 Greenwich St., New York, (30) $3,755 (31) $5,121; L. Mangieri, 190 31st St., (32) $5,482; F. T. McMillan Contg. Co., (34) $7,220; P. Deichler, (38) $6,198. Noted Jan. 31.

North Carolina—State Hy. Dept., Raleigh, improving roads (S. P. means State Project) grading and concrete paving 10 mi. S. P. 222, Duplin Co., from Pub. Serv. Production Co., Terminal Bldg., Newark, N. J., $333,903, 8.07 mi. S. P. 732-B, Davie Co., from Hardaway Contg. Co., 909 Elizabeth Ave., Charlotte, $282,750, 5.15 mi. S. P. 536, Guilford Co., from Hagedorn Contg. Co., Greensboro, $17,994, 12.5 mi. S. P. 720, Caldwell Co., from J. M. Gregory & Co., Pittsboro, $453,528; grading and waterbound macadam paving 11.5 mi. S. P. 106-B, Bertie Co., from S. G. Lossiter, Citizens Bank Bldg., Raleigh, $151,721; grading and gravel surfacing 5.33 mi. S. P. 714, Ashe Co., from J. F. Mulligan Constr. Co., North Wilkesboro, $98,762; grading 8.5 mi. S. P. 912 A, Cherokee Co., from Wilson Constr. Co., Rutherfordton, $81,007, 8.4 mi. S. P. 812-B, Cherokee Co., from W. T. Moore, Andrews, $32,981, 1.57 mi. S. P. 922, Transylvania Co., from W. H. Anderson, Spruceline, $45,432, 4.66 mi. S. P. 472-B, Vance Co. and 6.19 mi. S. P. 662-A, Richmond Co., from T. W. Chandler, Virginia, $38,253 and $41,606 respectively; grading and paving with waterbound macadam or asphaltic concrete 2.31 mi. S. P. 352, New Hanover and Brunswick Counties, from F. J. McGuire, Paul-Gale-G Bldg., Norfolk, Va., $93,160, 9.51 mi. S. P. 836-B, Henderson Co., from J. M. Gregory & Co., Pittsboro, $280,580; grading and sand asphalt paving 11.98 mi. S. P. 381, Pender Co., from Highway Eng. & Constr. Co., Selbyville, Del., $240,274. Noted Jan. 17.

Missouri—State Hy. Dept., Jefferson City, Jan. 29, cement concrete paving 20,544 sq. yd. Joplin-Carthage Rd., Jasper Co., 17,924 sq.yd. Belton-Harrisonville Rd., Cass Co., also grading 1.669 mi. Belton-Harrisonville Rd., Cass Co., from V. E. Koch, 14th and Texas Sts., Joplin, $30,405, $23,302 and $9,452 respectively; grading 4.969 mi. road, 24 ft., Dent Co., from Muskogee Constr. Co., Tulsa, Okla., $25,141, 4.35 mi. road 26 ft., Laclede Co., from Pioneer Constr. Co., Springfield, $17,697, 0.995 mi. road, 24 ft., Putnam Co., from R. L. Thompson, Carrollton, $7,009, 2.717 mi. Joplin Carthage Rd., Jasper Co., from Highway Constr. Co., Webb City, $5,883; grading and graveling 31,802 sq.yd. Memphis-Edina Rd., Knox Co., from Kerby Rainer & Co., Fayette, $12,602, 23,466 sq.yd. road from New London west, Ralls Co., and 13,617 sq.yd. road from Curryville west, Pipe Co., from F. T. O'Dell, 1004 Center St., Hannibal, $16,105 and $13,653 respectively, 46.032 sq. yd. Potosi-De Soto Rd., Washington Co., from W. A. Reynolds, Marble Hill, $31,059, 46,132 sq.yd. Buffalo-Bolivar Rd., Dallas Co., and 10,453 sq.yd. road from Tipton west, Moniteau Co., from N. A. Christy, Warsaw, $19,741 and $11,249 respectively, 21,848 sq.yd. road from California east, Moniteau Co., from E. C. Johnson, Carrollton, $13,242, 29,335 sq.yd. road from Branson east, Taney Co., from Cox & Chaney, Branson, $7,981. Noted Jan. 24.

Streets and Roads (Continued)

Tex., Houston—Paving Bissonett St. from Graustark to High Sts., rock asphalt, from Uvalde Rock Asphalt Co., Carter Bldg., $37,113; bitulithic, from Gulf Bitulithic Co., Kress Bldg., $37,923.

Tex., Palo Pinto—Palo Pinto Co. grading and surfacing with crushed stone base 4.97 mi. State Highway 28, 18 ft., Federal Aid Project 414, 427.7 cu.yd. concrete, 15,485 cu.yd. roadway, 18,148 cu.yd. borrow, 4,501 cu.yd. loose and 4,789 cu.yd. solid rock excav., 41,490 lb. reinforcing, 12,954 cu.yd. crushed stone, from McClung Constr. Co., Cleburne, $63,714. Engrs. est. $100,250. Noted Jan. 17. Bids for bituminous topping to be received later.

Calif., San Diego—Improving Redwood, Palm, Bancroft, 33rd, Felton and 31st Sts., incl. (1) 10,230 cu.yd. earth excav. (2) 10,912 cu.yd. earth embankment (3) 7,942 lin.ft. cement concrete curb (4) 38,253 sq. ft. cement concrete sidewalk, etc. from Pioneer Truck Co., 954 3rd St. (1) $1.45 (2) $0.25 (3) $0.65 (4) $0.21, total $39,957; Alameda Dr., Sheridan Ave., Alameda Pl., Henry, California, Puterbaugh, Guy and Linwood Sts., from California Constr. Co., Union Bldg., 74,847 sq.ft. 1½ in. asphaltic concrete on 4 in. concrete $0.214, 11,270 sq.ft. 4 in. cement concrete $0.235, 110,885 sq.ft. 5 in. cement concrete $0.258, 2,802 sq.ft. cement concrete sidewalk $0.25, 1,221 lin.ft. cement concrete curb $0.75, total $55,182.

CONTRACTS AWARDED

New York—L. Grossman, comr. State Hy. Dept., Albany, constructing and reconstructing 4.75 mi. Repair Contr. 3077, Oswego Co., to Brayer Bros., North St. Rd., Auburn, $101,848; 1.18 mi. Repair Contr. 3076, Allegany Co., to W. J. Fox, Oramel, $79,097; 1.19 mi. Repair Contr. 3075, Dutchess Co., to Mascetti & Holley, 60 Main St., Torrington, Conn., $67,240; 3.82 mi. Highway 8166, Orange Co., to Gould, Kranz & Mandel, 101 Reade St., New York City, $167,636; 5.3 mi. Highway 5697, Orleans Co., to J. M. Murray, Rochester, $184,009; 4.85 mi. Highway 8165, Madison Co., to G. B. Dickinson, Union Bldg., Syracuse, $187,452; 4.34 mi. Highway 8164, Wyoming Co., to C. A. Foote & Sons, Mt. Morris, $199,733; 8.79 mi. Highway 8156, Ontario Co., to Valerio Constr. Co., New Milford, Conn., $287,243. Noted Jan. 17.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sheet asphalt paving 77th St., to Cranford Co., 52 9th St., Brooklyn, $24,1?3. Noted Jan. 17.

N. Y. Long Island City—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., sheet asphalt paving 103rd Ave., to Borough Asphalt Co., 1301 Metropolitan Ave., Brooklyn, $22,958 Noted Jan. 31.

N. Y., New York—H. Bruckner, pres. Bronx Boro, 3rd and Tremont Aves., grading, curbing, paying sidewalks, etc., on La Salle Ave., to F. Hanratty, 605 Beach Terrace, $24,193. Noted Feb. 7.

N. Y., Waterloo—3d. Village Trustees paving 18,500 sq.yd., bituminous macadam, penetration, to F. Callahan Owasco Rd., Auburn, $1.33 per sq.yd. Noted Jan. 10.

W. Va., Logan—Logan Co., 3.4 mi. road from Chapmansville to Big Creek, to Langhorne & Langhorn, Huntington, $67,735.

Fla., Tampa—Grading, paving and curbing 26th Ave., Cayuga, Buffalo, Jefferson Sts., 16,260 sq.yd. 2½ asphalt blocks, 11,550 lin.ft. granite curbing, to Cone Bros., Tampa, $42,000. Noted Jan. 10.

O., Akron—W. F. Peters, dir. Pub. Serv., to McAlonan Bros., 197 West Buchtel Ave., improving West Market St., 1,300 lin.ft. 6 x 18 in. curb $1.60 per lin.ft., 12,900 sq.ft. concrete sidewalk $0.25, 3,750 cu.yd. earth excav. $1, 10,020 sq.yd. vitr. brick $2.35, total $78,084, engrs. est. $85,727, also Collinwood Ave., 5,000 lin.ft. 6 x 18 in. curb $1.50, 25,600 sq.ft. concrete sidewalk $0.22, 4,800 cu.yd. earth excav. $0.75, 6,390 sq.yd. vitr. brick $2.40, $45,518, engrs. est. $48,743; to M. Kalain, 573 Wilson St., Duane St. et al., 53,650 sq.ft. concrete sidewalk $0.22, 8,700 cu.yd. earth excav. $0.55, 2,525 cu.yd. cinders $0.95, engrs. est. $32,332. Noted Feb. 7.

Ind., Greencastle—Putnam Co., constructing 15,337 ft. C. H. Crosby Rd., Franklin Twp., to Pigg & Son, Terre Haute, $50,000.

Minn., Hibbing—Paving 33 blocks in South Hibbing and Brooklyn, 47,000 sq.yd. vibrolithic paving, concrete curbs and gutters, to E. W. Coons Constr. Co., 4th Ave. and Howard St., $3.64 per sq.yd., total $190,000. Noted Feb. 7.

Wyoming—State Hy. Comrs., Cheyenne, improving 5 mi., 20 and 24 ft., Cody-Yellowstone Park Rd., Park Co., Federal Aid Project 129, incl. grading, excav., embankment, retaining walls, c.i. culverts, to Taggart Constr. Co., Cowley, $167,853, incl. engineering and overhead, (culverts furnished by state); 1.3 mi. Cody-Yellowstone Highway, Part 3, to M. J. Kinney, 512 Bank Blk., Denver, Colo., $15,560. Noted Jan. 31.

Ark., Clarksville—Paving with plain concrete, curbing, guttering, storm sewers, etc., various streets, to P. Huggler, Rushville, $45,239.

Ark., Clarksville—Paving various streets, 2 in. asphaltic concrete on 4 in. concrete, to Moreno-Burkham, Syndicate Trust Bldg., St. Louis, Mo., $50,499.

Tex., Amarillo—Potter Co. grading and gravel surfacing 6.06 mi. State Highway 33, Federal Aid Project 421, 12.4 cu.yd. concrete, 22,830 cu.yd. borrow, 20,436 cu.yd. borrow excav., 14,210 cu.yd. gravel surfacing, to Hoffman Constr. Co., Eastland, $66,996. Engrs. est. $76,536.

Tex., Brady—McCulloch Co. grading and gravel surfacing 4.64 mi. State Highway 9, Federal Aid Project 419, 16 ft., to McCall Eng. Co., Amicable Bldg., Waco, $48,691. Noted Feb. 7.

Tex., Dallas—Paving Young St. from Harwood to Houston Sts., 1½ in. Willite asphaltic concrete, to Fuller Constr. Co., Southland Life Bldg., $56,536. Noted Jan. 31.

Tex., Hern—Robertson Co. grading and graveling 9.74 mi. Hearn-Franklin Rd., to Thomas & Ratliff, Rogers, $36,536.

Tex., Uvalde—Uvalde Co. hard surfacing 5.88 mi. Highway 3, to Peterman & Robinson, Laredo, $50,965. Noted Jan. 10.

Oklahoma—State Hy. Dept., Oklahoma City, grading and graveling 6 mi. McAlester-Quinton Rd. from Krebs north, 61,000 sq.yd. gravel, 43,000 cu.yd. earth, 6,600 cu.yd. rock excav., to Altman Rogers Co., McAlester, $45,936.

Okla., Tulsa—Improving 6 blocks Lewis Ave., 36 ft., 7 in. concrete, 1 block Boston Ave. and 1 block 17th Pl., both 26 ft., vibrolithic concrete, 2 blocks 20th St., 24 ft., vibrolithic concrete, to Western Paving Co., Daniels Bldg., $73,706, $9,885, $4,261 and $3,974 respectively; 2 blocks Wheeling Ave., and 5 blocks 12th Pl. and Zunis Ave., 26 ft., asphaltic concrete, to H. L. Cannady Co., 1104 South Lewis St., $15,846 and $31,482 respectively; two alleys, 20 ft., to C. M. Brown, 1315 South Trenton St., $4,005; 3½ blocks Utica Ave. and Easton St., 26 ft., asphaltic concrete, to Standard Paving Co., 1742 East 6th St., $20,931. Noted Jan. 17.

Arizona—State Hy. Dept., Phoenix, improving Phoenix-Wickenburg Hy., Federal Aid Project 76, to L. C. Lashmet, Prescott, 16,149 cu.yd. roadway excav. $0.25, 15,685 cu.yd. excav. borrow $0.25, 769 cu.yd. excav. structures $1.50, 8,720 cu.yd. excav. ditches, etc., $0.25, 324 cu.yd. Class A concrete $14, 144 cu.yd. Class B and 93 cu.yd. Class C concrete $13, total $27,381, state furnished material $10,202.40, engineering and contingencies, $3,758.36, grand total $41,342.

Calif., Hawthorne—Improving 2 portions Miramar Ave., 2½ in. asphalt concrete base with 1½ in. Willite surface, to G. R. Curtis, 2440 East 26th St., Los Angeles, $126,020 and $61,602 respectively.

Calif., Los Angeles—Improving Leesdale St., to G. H. Oswald, 366 East 58th St., grading $10,000, 766 ft. concrete curb $0.70, 240,015 sq.ft. concrete paving $0.255, wooden trestle bridge $37,886, total $109,825. Noted Jan. 3.

Calif., Los Angeles—Improving Sunset Dr. between Myra St. and Sunset Blvd. incl. 79,485 sq.ft. concrete, 2,760 sq.ft. bituminous, 2,066 curb, 8,730 sq.ft. walks, etc., to G. A. Constantine, Haas Bldg., $28,775.

Calif., Newport Beach—Improving Ocean Blvd., etc., incl. 19,010 cu.yd. sand excav., 91,708 sq.ft. of 6 in. clay and gravel surface, grading, 152,080 sq.ft. 6 in. and 201,697 sq.ft. 8 in. concrete pavement, 18,932 lin ft. concrete curb, 94,341 sq.ft. concrete walks, etc., to California Constr. Co., Union Bldg., San Diego, $249,508. Noted Feb. 7.

Calif., San Bernardino—San Bernardino Co., improving Big Bear Blvd., Rd. Dist. Impvt. 25, incl. 26,885 ft. of 8 in. macadam, 18 ft. wide, 41,000 cu.yd. earthwork, etc., to H. H. Lineau, San Bernardino, $149,500.

Calif., San Diego—Improving Fir St. between 6th and California Sts., incl. 93,818 sq.ft. 1½ in. asphaltic concrete on 2½ in. bituminous, 20,310 sq.ft. 4 in. concrete, 6,145 sq.ft. cement concrete sidewalk, 1,610 lin.ft. cement concrete curb, to Griffith Co., 25 14th St., $22,499.

Calif., San Jose—Improving portion 4th, 5th and 6th Sts., grading and paving 1½ in warrenite-bituminous surface on 3½ in. bitulithic cement, curbs, gutters, walks, etc., to H. Crummey, 121 Pearl St. To exceed $25,000.

Calif., Santa Monica—Improving Washington Blvd. between Strand and city limits, bitulithic pavement, curbs, walks, etc., to Keen Paving Co., Dudley Blk., $27,375.

Calif., Santa Ana—Orange Co., improving 6 mi. Bolsa-Chica Rd., 12,500 cu.yd excav., 11,500 cu.yd. gravel, etc., to H. H. Peterson, Spreckels Bldg., San Diego, $53,000.

Quebec—Provincial Government, Quebec, 3¾ mi. macadam road from Gatineau Point easterly on Hull-Montreal Highway, to M. Bucciarelli & Co., Hull, $42,121.

Ont., Toronto—Will round 38 street corners incl. changing sidewalks, filling out pavements, etc., by day labor. $49,505. R. C. Harris, city engr.

Industrial Works

PROPOSED WORK

Mass., Brookline (Boston P. O.)—Storehouse—S. S. Pierce Co., 69 Tremont St., Boston, plans 115 x 535 ft., rein.con., Brookline St., here. $150,000-$200,000.

N. Y., Albany—Storehouse—Albany Hardware & Iron Co., soon takes bids 7 story, 112 x 200 ft., rein.-con., Bway. and Arch St. $500,000. A. W. Fuller, 95 State St., archt. Noted Dec. 6.

N. Y., Long Island City—Warehouse—Ludwig Baumann & Co., 500 8th Ave., New York, having plans prepared by Buchman & Kahn, archts. and engrs., 49 West 45th St., New York, 15 story, 200 x 300 ft., rein.-con. and steel, plain foundation, Anable St., here. $1,500,000.

D. C., Wash.—Warehouse—Dist. Comrs. plan to rebuild warehouse and steamship office recently destroyed by fire, 7th St. wharf. $100,000. Washington & Norfolk Steamship Co., lessee.

W. Va., Bluefield—Freight Station—Norfolk & Western R.R. Co., Roanoke, Va., plans freight station and yards, here. $500,000. W. P. Wiltse, acting ch. engr.

La., Shreveport—Gas Plant, etc.—J. S. Cullinan and associates, Capitol Ave., Houston, Tex., having plans prepared large gas production plant, here, also pipe line from Monroe Fields to Shreveport. $1,000,000. Private plans.

Ky., Louisville—Warehouse—Monarch Automobile Co., 741 South 8th St., plans warehouse. $40,000.

Ky., Louisville—Garage—Lee Tire & Rubber Co., 3rd St., plans 2 story, 53 x 140 ft. garage and service station, 551 South 1st St. $75,000.

Ky., Whitesburg—Roundhouse, etc.—Louisville & Nashville R.R. Co., 10th St. and Bway., Louisville plans roundhouse and extension of yards, here. $50,000. W. H. Courtnay, ch. engr.

O., Alliance—Plant—Alliance Clay Products Co. plans 2 story plant, State Rd. $75,000-$100,000. Will mature in spring.

O., Canton—Factory—Gilliam Mfg. Co., 1919 Navarre Rd. S. W., plans 2 story, brick factory addition, along tracks of Pennsylvania R.R. B. T. Steiner, pres.

O., Cleveland—Garage—Eagle Impvt. Co., c/o H. D. Hughes, archt., 920 Citizens Bldg., having plans prepared 2 story and basement, 100 x 115 ft., brick, rein.-con. and steel, Eagle Ave. $100,000.

O., Cleveland—Garage—J. Bassichis & Son, 309 Society for Savings Bldg., having plans prepared by A. Sharowsky, 2045 Marlowe Ave., Lakewood, 2 story, 25 x 92 ft., brick and steel, 1532 Lakeside Ave. $40,000. Red Top Cab Co., 1532 Lakeside Ave., lessee.

O., Toledo—Plant—Lockwood, Greene & Co., engrs., 24 Federal St., Boston, takes bids within 2 weeks new plant on 100 acre site along tracks of New York Central R.R. and Hocking Valley R.R., here, for Libbey-Owens Sheet Glass Co., Nicholas Bldg. $1,000,000-$1,500,000. Noted Jan. 17.

Ind., Greencastle—Crushing Plant—Mid West Crushed Stone Quarries Co. plans stone crushing plant to replace one recently destroyed by fire. $40,000.

Ind., Michigan City—Repair Shop and Service Station—Prince Motor Co., 1103 Jackson St., having plans prepared by Nicol, Scholer & Hoffman, Ross Bldg., Lafayette, 2 story, 100 x 125 ft., Jefferson St. $75,000.

Ill., Belvidere—Distillery—Local syndicate, c/o Chamber Commerce, having preliminary plans prepared distillery, daily capacity 100 bbl. $250,000. Private plans.

Ill., Chicago—Factory—Peters Mchy. Co., 231 West Illinois St., having plans prepared by C. A. Eckstorm, 5 North La Salle St., 1 story, 90 x 144 ft., brick and timber, 4700 West Ravenswood St. $40,000.

Ill., Macomb—Power Plant—Bd. Trustees State Teachers College plans 1 story and basement, 65 x 100 ft. $40,000.

Wis., Eau Claire—Warehouse—Wisconsin-Minnesota Light & Power Co., 2 South Barstow St., 2 story and basement, brick and concrete, plain foundation, Railroad St., by day labor. $75,000. Private plans. Noted Dec. 13.

Wis., Hartland—Garage—Hornberg Motor Co. having plans prepared by Esch-

Industrial Works (Continued)

weiler & Eschweiler, 210 Mason St., Milwaukee, 1 story, 60 x 70 ft. and 30 x 50 ft. additions, brick and timber, plain foundation. $40,000.

Wis., Milwaukee—Service—H. E. Weber, Inc., 583 Jefferson St., having revised plans prepared by Van Ryn & DeGelleke, 114 Grand Ave., 1 story and basement, 122 x 130 ft., brick and concrete, plain foundation, Martin St. $150,000. Former bids rejected.

Wis., Milwaukee — Plant — Milwaukee Gas Light Co., 182 Wisconsin St., plans brick and steel, plain foundation, on west side. $5,000,000-$6,000,000. R. B. Brown, pres. Engineer and architect not selected.

Wis., Wisconsin Rapids—Garage—Zeaman Motor Co., 212 Oak St., having plans prepared by M. C. Jacobson, Wisconsin Rapids, 2 story, 48 x 185 ft., garage and repair shop, brick and rein.-con., plain foundation.

Wis., Wausau—Electric Power Plants—Wisconsin Valley Electric Co., 306 3rd St., denies they will build 3 hydro electric power plants along Wisconsin River, as noted in Jan. 17 issue.

Minn., Mankato—Storage Stations, etc.—Standard Oil Co., Davidson and Lord Sts., Indianapolis, Ind., plans group of buildings incl. warehouses, shops, garage, storage stations and offices, here. $150,000. J. J. Meyer, Mankato, representative.

Kan., Fredonia — Voted $150,000 bonds electric light plant, distribution system, and electrification pumping station. A. L. Mullergren, 555 Gates Bldg., Kansas City, Mo., engr.

Kan., Salina—Warehouse—Salina Supply Co. having plans prepared by C. W. Sawyer, Salina, 4 story and basement, 91 x 121 ft., concrete, brick and stone, Santa Fe St. $150,000.

S. D., Watertown—Garage—Holt Motor Co., 226 East Kamp Ave., having plans prepared 1 story, 57 x 100 ft. brick garage. $90,000. Private plans.

Mo., St. Louis—Garage—Local Syndicate, c/o B. Altheimer & Bro. Realty Co., Wainwright Bldg., soon takes bids 3 story, 147 x 188 ft., rein.-con. and brick, Lucas Ave. $175,000.

Tex., Athens—Garage—Tri County Motor Co. plans 1 story, 50 x 115 ft., brick and concrete, Market St. $45,000. Engineer and architect not announced.

Tex., Brady — Cold Storage — Mayhew Produce Co. plans cold storage plant with 15 ton ice plant and 5 cold storage rooms, along tracks Atchison, Topeka & Santa Fe R.R. $40,000.

Tex., Cleburne — Shops, etc. — Grand Canyon & Santa Fe Ry., Los Angeles, operated by Atchison, Topeka & Santa Fe R.R., having plans prepared car and locomotive shops, terminal improvements and new station, here. $3,000,000. R. B. Ball, 6th and Main Sts., Los Angeles, ch. engr. coast lines.

Tex., Jacksonville—Repair Shop, etc.—Texas & New Orleans R.R. operated by Southern Pacific Ry., Southern Pacific Bldg., Houston, had plans prepared repair shops, roundhouses, extension of yards on 32 acres. H. M. Lull, Houston, ch. engr. Texas lines.

Okla., Okmulgee—Refinery—Allied Refining Co. having plans prepared by W. P. Henry, engr., Okmulgee, addition to refinery. $125,000.

Ont., Schreiber—Roundhouse—Canadian Pacific Ry., Windsor Sta., Montreal, Que., plans rebuilding 1 story, rein.-con. and brick roundhouse recently destroyed by fire, here. $250,000.

California, Nevada and Utah — Shops, etc.—See "Railways."

Calif., Antioch—Substation—Pacific Gas & Electric Co., 445 Sutter St., San Francisco, plans substation on 58 acre site, here. To exceed $150,000.

Calif., Burbank—Factory—Clark-Turner Piston Co., 2251 East 7th St., Los Angeles, had plans prepared by Austin Co. of California, Bartlett Bldg., Los Angeles, 1 story, 50 x 250 ft., brick and concrete, Olive St., here.

Calif., Los Angeles—Substations, Power Plants, etc.—Southern California Edison Co., 306 West 6th St., appropriated $2,394,000 for substations; $2,100,000 enlargement of Big Creek power plants, No. 1, 25,000 kva. and No. 2, 16,000 kva.; $1,160,500, transmission lines, etc.; $5,943,700 for distribution lines; $1,000,000, diversion dam and enlargement Florence Lake Reservoir; $5,879,000 Florence Lake Tunnel; $700,000 tunnel at Lake Huntington.

Calif., Oakland — Foundry — Marchant Calculating Machine Co., Powell and Landregan Sts., having plans prepared 1 story, hollow tile and galvanized iron, 10th Ave. near High St. $50,000. Private plans. Traveling crane, about 10 ton, will be installed.

Calif., Oakland—Warehouse—Aluminum Cooking Utensil Co., Monadnock Bldg., San Francisco, plans 2 story, to contain 60,000 sq.ft. of floor space, brick or concrete, Adeline and 46th Sts., here. E. T. Grove, dist. mgr.

Calif., Redding—Garage—W. E. Bewsher, 617 California St., plans 1 story, 150 x 300 ft., rein.-con., Placer, California and Sacramento Sts. $100,000 incl. equipment.

Calif., San Francisco — Bakery — Twentieth Century Baking Co., 1650 Polk St., having plans prepared by C. O. Clausen, Hearst Bldg., 2 story and basement, rein.-con., Howard St. and Washington Alley. $55,000.

Que., Montreal—Plant—McKinnon Steel Co., Ltd., Sherbrooke, plans fabricating plant, Hamilton and St. Patrick Sts., here. $250,000.

BIDS DESIRED

O., Cleveland—Garage—A. F. Janowitz, archt., 811 Prospect Ave., taking bids 1 story and basement, 75 x 128 ft., brick, Woodland Ave., for J. Makoff, 2740 Euclid Blvd., Cleveland Heights. $50,000.

Mich., Detroit — Factory — Esselstyn & Carey, engrs., 2539 Woodward Ave., taking bids and opens same about Feb. 15, 2 story, 60 x 160 ft. rein.-con., brick and steel addition to factory, Central Ave., for Wolverine Tube Co., 1411 Central Ave.

Calif., Oakland—Garage—E. W. Cannon, archt., Central Bank Bldg., receiving bids 1 story and basement, rein.-con., Bway. near Orchid St., for M. E. Roberts, 1622 East 19th St. $40,000.

CONTRACTS AWARDED

N. Y., New York—Garage—Lehfri Realty & Constr. Co., Inc., c/o J. M. Berlinger, archt. and engr., 469 7th Ave., will build 4 story, rein.-con., brick and steel, plain foundation, 308 East 48th St. $200,000. Work will be done by separate contracts under supervision of architect.

Pa., Phila. — Garage and Service — L. Folsheid, 815 East Chelten Ave., will build 1 story, 50 x 150 ft., brick and steel, plain foundation, Chew and Chelten Aves., by day labor. $50,000. E. A. Wilson, 1208 Chestnut St., archt.

Pa., Phila. — Plant — Howard Biddle Printing Co., 518 Locust St., 1 story, 65 x 116 ft. brick and steel, plain foundation, 520-526 Locust St., to Smith-Hardican Co., 1811 Callowhill St.

Pa., Phila.—Mill—E. A. Stopper, archt., Fuller Bldg., 2 story and basement, 66 x 105 ft. rein.-con. mill, plain foundation, Allegheny and Boudenot Sts., to Turner Constr. Co., 1713 Sansom St. for Concordia Silk Mills. Noted Jan. 10.

Va., Roanoke—Norfolk & Western R.R., 1 story machine shop at East Roanoke Wks., to J. P. Pettyjohn & Co., Lynchburg. Archts. est. $65,000.

N. C., Mebane—Factory—White Furniture Co., 3 story, 100 x 200 ft. machine room and 80 x 240 ft. finishing room, brick, steel and concrete, to J. L. Crouse, Greensboro. Noted Jan. 21.

Ky., Ashland—Dairy—Ashland Sanitary Milk Co., 34th and Winchester Sts., 2 story, 50 x 85 ft., to Elswick & Ramsey, Ashland. Archts. est .$40,000. Noted Sept. 27.

Ky., Somerset—Shop—Southern R.R. Co., Southern R.R. Bldg., 1 story addition to car repair shops, here, to T. P. Pettyjohn & Co., 212 8th St., Lynchburg, Va. Est. cost $65,000.

Ind., Evansville—Dairy, Shop and Warehouse—Ideal Dairy Co., 7th and Penn. Ave., 2 story, 95 x 132 ft., brick and rein.-con., to M. J. Hoffmann Co., Furniture Bldg., $40,000. Noted Jan. 24.

Mich., Detroit — Depot — Texas Co., 17 Battery Pl., New York City, 1 story, rein.-con. and brick oil distributing depot, incl. warehouse, pumphouse, office building, storage tanks, etc., to McKelvey Constr. Co., 406 Hammond Bldg. Engrs. est. $100,000.

Mich., Grand Rapids—Depot—Texas Co., 17 Battery Pl., New York City, 1 story, 118 x 334 ft., oil distribution depot incl. pumphouse, office building, steel storage tanks, etc. here, to McKelvey Constr. Co., 406 Hammond Bldg., Detroit. Engrs. est. $50,000.

Ill., Rockford — Distributing Depot — Texas Co., 17 Battery Pl., New York City, 1 story, 118 x 334 ft. depot, incl. rein.-con. and brick pump house, storage tanks, office, roadways, etc., here, to McKelvey Constr. Co., 406 Harmond Bldg., Detroit, Mich. Archts. est. $50,000.

Ill., Waukegan — Distributing Depot — Texas Co., 17 Battery Pl., New York City, 1 story, 118 x 334 ft. depot, incl. pump house, storage tank and office, rein.-con. and brick, roadways, etc., here, to McKelvey Constr. Co., 406 Hammond Bldg., Detroit, Mich. Archts. est. $50,000.

Wis., Algoma — Factory — Algoma Wood Products Co., 2 story, 60 x 120 ft., concrete and steel, plain foundation, to F. Wulf & Son, Algoma. $60,000. Noted Oct. 11.

Wis., Cornell—Garage—A. Fox will build 1 story, 100 x 132 ft., brick and concrete, plain foundation, by day labor. $50,000. Private plans.

Wis., West Allis—Foundry—Rosenthal Corn Husker Co., 7424 Elm St., 1 story, 60 x 70 ft. and 55 x 57 ft., brick and steel, plain foundation, Greenfield St., by day labor. $40,000. Private plans.

Mo., St. Louis—Factory—Measuregraph Co., 1821 Olive St., 2 story, 80 x 180 ft., rein.-con. and brick, Forest Park Blvd., to W. Cunliffe, 4935 Delmar Blvd. Archts. est. $60,000.

Calif., Emeryville—Warehouse and Factory—Detroit Steel Products Co., 251 Kearney St., San Francisco, 1 story, 106 x 120 ft., concrete, Boyle and 64th Sts., here, to R. W. Littlefield, 357 12th St., Oakland. Noted Jan. 3.

Calif., Fullerton — Factory — Western Glass Co., 939 East 1st St., Los Angeles, 1 story, 200 x 800 ft., steel frame, here, to Union Iron Wks., 5125 Santa Fe Ave., Los Angeles. Total cost $275,000.

Calif., Los Angeles—Garage—J. Ormsby, 176 North Echo Park Ave., 1 story, 60 x 148 ft., brick, to W. J. Gray, 2131 Sunset Blvd.

Calif., Los Angeles—Garage—P. L. Bixby, 705 Citizens Natl. Bank Bldg., 1 story, 130 x 158 ft., brick, Mateo and 8th Sts., to V. P. Gilbert, Citizens Natl. Bank Bldg.

Calif., Los Angeles—Garage—W. Shortsleeve, et al., 810 South Grand Ave., 8 story and basement, rein.-con., to Macdonald & Kahn, Loew State Bldg., $250,000.

Calif., Los Angeles—Warehouse—W. J. Norton, 5712 Brinehurst Ave., 5 story, 60 x 80 ft., rein.-con., South Western Ave., to Richards-Neustadt Constr. Co., Trust & Savings Bldg., $49,500.

Calif., Los Angeles—Warehouse—Union Pacific Ry. Co., 610 South Main St., 2 story rein.-con. addition, Clarence and 6th St., to Lynch Constr. Co., Central Bldg., $87,500. Pacific Southwest Distributing Co., 1600 East 6th St., lessee.

Calif., San Francisco—Printing Plant—Wobbers, Inc., 724 Market St., 1 story and basement, rein.-con., Jessie St. and Mint Ave., to Mager Bros., 1318 Valencia St., $42,000. Noted Nov. 22.

Buildings

PROPOSED WORK

Mass., Boston — Apartment — Kanter & Steinberg, 220 Warren St., having plans prepared by Silverman, Brown & Heenan, 51 Cornhill, 3 story, 100 x 120 ft., brick, plain foundation, Warren St. $250,000.

Mass., Boston—Apartment—M. Seretto, 3 Tremont Row, plans brick, Commonwealth Ave. $1,000,000. Engineer and architect not selected.

Mass., Pittsfield—Hotel—Wendell Hotel Co. having sketches made by H. L. Stevens & Co., 522 5th Ave., New York City, 6 story, 60 x 120 ft. addition, brick and steel, plain foundation, South and West Sts. $200,000.

N. Y., Albany—Hospital—Albany Hospital, North Scotland Ave., having plans prepared by Crow, Lewis & Wick, 200 5th Ave., New York City, 3 story, 150 x 200 ft., brick and steel addition, plain foundation. $700,000. This corrects report in Jan. 24 issue.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York City, having plans prepared by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., P. S. 105, brick, steel and stone, plain foundation, Ft. Hamilton Ave. and 59th St., here. $1,150,000.

N. Y., Brooklyn — School — St. Joseph Roman Catholic Church, 956 Pacific St., soon takes bids brick, steel and stone, plain foundation, Dean St. $250,000. W. T. McGuire, pastor. F. J. Berlenbach, 26 Graham Ave., archt. and engr.

N. Y., Eastview—Home—Supervs. Westchester Co., Court House, White Plains, soon take bids 4 story, brick, steel and stone, plain foundation, here. $650,000. Walker & Gillette, 126 East 37th St., New York City, archts. and engrs. Noted Dec. 6.

N. Y., Haverstraw—Club—B. P. O. E. soon takes bids 2 story, brick, steel and stone, plain foundation. $150,000. Tooker

Buildings (Continued)
& Marsh, 101 Park Ave., New York City, archts. and engrs. Noted Sept. 6.

N. Y., New York—Apartment—One Hundred Fifteen East 48th St., Corp., c/o M. B. Schmidt, archt. and engr., 14 East 40th St., soon takes bids 14 story, 200 x 200 ft., brick, steel and stone, plain foundation, 48th St., and Lexington Ave. $3,500,000. Noted Nov. 1.

N. Y., New York—Exchange—New York Telephone, 15 Dey St., having plans prepared by McKenzie, Voorhies & Gmelin, archts. and engrs., 342 Madison Ave., 3 story, 100 x 150 ft., brick, steel and stone, plain foundation, Kingsbridge Rd. and 230th St.

N. Y., New York—Exchange—New York Telephone Co., 15 Dey St., soon takes bids 3 story, 100 x 150 ft., brick, steel and stone, plain foundation, Cruger Ave. McKenzie, Voorhies & Gmelin, 342 Madison Ave., archts. and engrs.

N. Y., New York—Office—J. Kovacs, 17 East 42nd St, plans 20 story, 50 x 100 ft., brick, steel and stone, plain foundation, 22 West 48th St.

N. Y., New York—School—Bd. Educ., 500 Park Ave., having plans prepared by W. H. Gompert, archt. and engr., Flatbush Ave. extension and Concord St., Brooklyn, P. S. 82, 5 story, brick, steel and stone, plain foundation, Macomb Rd. and 176th St. $800,000.

N. Y., Nyack—Hospital—Nyack Hospital Assn., having plans prepared by M. L. and H. G. Emery, archts. and engrs., 68 Bible House, New York City, brick, steel and stone addition, plain foundation, Midland Ave. $200,000. Noted May 24.

N. Y., Oyster Bay—School—Bd. Educ. having plans prepared by J. W. O'Connor, archt. and engr., 162 East 37th St., New York City, brick, steel and stone, plain foundation. $600,000. J. Birmingham, pres.

N. Y., Woodhaven—Theater—Cross Bay Theater Co., Inc., c/o R. T. Short, archt. and engr., 360 Macon St., Brooklyn, having plans prepared brick, steel and stone, plain foundation, Woodhaven Ave. and Rockaway Blvd., here. $275,000.

N. J., New Brunswick — Club — New Brunswick Lodge of Elks, plans 3 story, brick and limestone. $300,000. A. Merchant, 368 George St., and W. Boylan, 143 Albany St., archts.

N. J., Oradell—Hospital—Bd. Freeholders Bergen Co., Court House, Hackensack, having plans prepared by G. W. Conable, archt. and engr., 46 West 24th St., New York City, 3 story, brick, steel and stone, plain foundation, here. $200,000.

Pa., Bloomsburg — High School — Bd. Educ. having plans prepared by McLanahan & Bencker, Bellevue Court Bldg., Phila., brick high school. $500,000.

Pa., Phila.—Apartment—Fox Bros., 6224 North Broad St., having plans prepared by E. Roth, Drexel Bldg., 3 story and basement, 110 x 150 ft., brick and steel, plain foundation, Broad St. below Chelten Ave. $275,000.

Pa., Phila.—Hospital, Institution, etc.—City plans completing portion Phila. Hospital for Insane, $750,000, and female buildings for Institution for Feeble-minded, $1,200,000, both at Byberry 35th Ward, here. P. H. Johnson, 1713 Sansom St., archt.

Pa., Phila.—Nurses Home—Phila. Hospital, 34th and Pine Sts., having plans prepared by P. H. Johnson, 1713 Sansom St., addition to nurses home, 34th and Pine Sts. $200,000.

Pa., Phila.—Office—C. Kahn, Morris Bldg., having plans prepared by L. Rothschild, 25 South Broad St., 10 story and basement, 60 x 100 ft., rein.-con., brick, and limestone, plain foundation, Sydenham and Locust Sts. $500,000.

W. Va., Lumberport — Eagle Dist. Bd. Educ. having plans prepared by S. W. Ford, Clarksburg, and takes bids about Mar. 1, brick school, to replace one destroyed by fire. $150,000.

W. Va., Huntington—Feb. 25, by Meanor & Handloser, archts., Professional Bldg., 14 story, 59 x 90 ft., rein.-con., brick and steel, for Union Bank & Trust Co., 4th Ave. and 9th St. $800,000. Noted Feb. 7.

N. C., Gastonia — Plans Y. M. C. A. building. $250,000. Address Chamber of Commerce.

Ga., Albany—School—City and Dougherty Co. voted $200,000 bonds for school.

Ala., Tuscaloosa—Church—Bd. Deacons First Baptist Church soon takes bids 1 story, 50 x 100 ft. church and 2 story, 50 x 75 ft. sunday school. $150,000.

Tenn., Nashville—Fraternal—Grand Lodge Independent Order of Odd Fellows plans 12 story, rein.-con., 119th St. and 7th Ave. C. M. Bishop, 1651 North Parkway, Memphis, grand master. $500,000.

Ky., Louisville — Church — St. Agnes Parish, plans church, Newburg Rd. and Speed Ave. $150,000.

Ky., Louisville—Clinic—Solomon Clinic, Clinic Bldg., having plans prepared by L. C. Solomon, Clinic Bldg., two 6 story additions, East Chestnut St. $150,000.

Ky., Louisville—Court House—Comrs. Jefferson Co. plan two 3 story wings to court house, 5th and Jefferson Sts., $150,000.

O., Alliance—Lodge and Mercantile—Moose Lodge plans 5 story, 100 x 110 ft., East Market and South Seneca Sts. $250,000. R. E. White, secy.

O., Ashtabula — Exchange — Ashtabula Telephone Service Co., having plans prepared by McGarry & McGarry, 4614 Prospect Ave., Cleveland, 2 story and basement, 55 x 113 ft., brick and rein.-con. $150,000.

O., Ashtabula—Store—Carlisle Co., 161 Main St., had plans prepared by McGarry & McGarry, 4614 Prospect Ave., Cleveland, 4 story and basement, 60 x 130 ft., brick, steel and concrete. $150,000.

O., Columbus—City Hall—Having plans prepared by Allied Architects Assn., Ltd., Columbus, brick, stone and concrete, along Scioto River. $600,000-$800,000. G. H. Bulford, North High St., member of Bd. Mgrs.

O., St. Clairville—Hospital—Belmont Co. having plans prepared by C. W. Bates, 77 12th St., Wheeling, W. Va., 2 story and basement, 60 x 130 ft., brick and rein.-con. $175,000.

O., Unionville Center—School—Bd. Educ. having plans prepared 2 story and basement, 97 x 100 ft., brick and concrete, $150,000. Engineer and architect not announced.

Mich., Detroit—Apartment-Hotel—Abraham & Wood, archts., 705 Kresge Bldg., preparing plans 8 story and basement, 80 x 155 ft. rein.-con. and brick, plain foundation, Warren Ave. $350,000. Owner's name withheld.

Mich., National Mine—High and Grade School—Tilden Twp. Bd. Educ. having plans prepared by Derrick-Hubert, Menominee, 2 story, 98 x 212 ft. concrete, brick and tile, plain foundation, here. $175,000.

Ill., Chicago—Apartment—J. P. Quill, c/o Fox & Fox, archts., 38 South Dearborn St., having plans prepared 3 story, 125 x 200 ft., fireproof, Jackson St. near La Vergne St. $150,000.

Ill., Danville — Hotel — W. Van Valkenburg, Plaza Hotel, soon takes bids 8 story, 60 x 145 ft., rein.-con., brick and stone. Lewis & Dougherty, Adams Bldg., archts.

Ill., Okawville — Hotel — Okaw Mineral Springs Hotel Co., c/o G. W. Frank, having preliminary plans prepared 200 room, brick, concrete and stone. $300,000. Engineer and architect not selected.

Ill., Springfield—Exhibition and Administration—Illinois State Fair, Dept. Agriculture, having preliminary plans prepared 2 and 3 story, brick and concrete, Fairgrounds. $450,000. Private plans.

Wis., Madison—Club—Aerie of Eagles, c/o M. G. Ekstedt, 418 East Wilson St., plans 2 story, rein.-con., brick and steel, plain foundation, West Doty St., $150,000. Architect not selected.

Wis., Madison—Theatre—T. S. Nicholson & Sons Co., 1949 Winnebago St., having plans prepared by P. M. Homer, Pioneer Blk., 2 story, about 100 x 150 ft., brick, rein.-con. and steel, Atwood St. $150,000. Noted Jan. 24.

Wis., Milwaukee—Business—G. A. Butter Co., 603 Mitchell St., having plans prepared by Voelz & Siebert, 373 Bway., 2 story and basement, 139 x 300 ft., brick and concrete, plain foundation. $400,000.

Wis., Milwaukee — Church — St. Leo's Congregation, P. Theisen, 2442 Locust St., pastor, soon takes bids 2 story, 88 x 160 ft., brick and concrete, plain foundation, Locust and 24th Sts. $250,000. E. La Croix, 1394 25th St., archt. Noted Jan. 31.

Ia., Ottumwa—Rejected bids converting Y. M. C. A. building into Y. W. C. A., 4 story and basement, rein.-con., brick and stone. Archts. est. $150,000. Croft & Boerner, 1006 Marquette Ave, Minneapolis, Minn., archts. Noted Jan. 10.

Ia., Tipton—School—Election Feb. 17, $265,000 bonds for school. Thomas, McLenman & Thomas, 527 West 17th St., Des Moines, archt.

Minn., Breckenridge—Court House—Wilkin Co. defeated $200,000 bonds for court house. P. E. Truax, aud. Noted Nov. 1.

Minn., Minneapolis—Theatre, Store and Office—Auditorium Holding Co., Auditorium Bldg., having plans prepared by Magney & Tusler, 126 South 9th St., converting auditorium-office building, 3 story and basement, 165 x 220 ft., into theatre, store and office, Nicollet Ave. and 11th St. $250,000.

Kan., Wichita — Hospital — Southwest Osteopathic Sanitarium, Blackwell, Okla., making preliminary plans 4 story, rein.-con. and brick, here. $125,000 to $175,000. Private plans.

Neb., Beatrice—Hospital—State Bd. Control, Lincoln, soon takes bids 2 story and basement, 94 x 133 ft. rein.-con., brick and stone, for Institute for Feeble Minded, here. $125,000 to $150,000. R. W. Grand, Beatrice, archt.

Neb., Grand Island—High School—Bd. Educ., c/o S. E. Sinke, secy., having preliminary plans prepared by Kirsche & Baker, Ryan Bldg., 3 story and basement, 270 ft. long, rein.-con., brick and stone, Cedar St. between 5th and 6th Sts. $350,000.

Mo., Independence—Memorial—Tirey J. Ford Post Amer. Legion having preliminary plans prepared by A. Gentry, 3 story and basement, 100 ft. sq., brick, stone and rein.-con.

Mo., St. Louis—Home—Little Sisters of Poor, 20th and Hebert Sts., plans 4 story, rein.-con., brick and stone addition. $200,000.

Mo., St. Louis—Office—I. T. Cook Co., Arcade Bldg., soon takes bids remodeling Odd Fellows Building, consisting of tearing down large tower, adding additional story to building proper, etc., Olive St. $500,000. P. J. Bradshaw, International Life Bldg., archt.

Ark., Jonesboro—Hotel—E. B. Noble, Noble Hotel, plans 100 room addition, brick, rein.-con., stone and terra cotta. $175,000. Architect not selected.

Tex., Ft. Worth — See "Unclassified" under "Contracts Awarded."

Tex., San Antonio—Apartment—C. T. Boelhauwe & R. A. Baker, City Natl. Bank Bldg., having plans prepared 4 story, 90 x 160 ft., rein.-con., tile and stucco, plain foundation, Fredericksburg and Callinan Rds. $150,000.

Tex., Texarkana—City Hall—City having plans prepared by C. H. Page & Bros., archts., Austin Natl. Bank Bldg., Austin, and Witt, Siebert & Halsey, associated archts., Texarkana, 6 story and basement, stone, brick, concrete and steel. $200,000.

Okla., Fairfax—High School—Bd. Educ. having plans prepared by Fonini & Bramblett, Terminal Bldg., Oklahoma City, 3 story, 80 x 180 ft., rein.-con. and brick, plain foundation, 7th St. $178,000.

Okla., Newkirk—Hotel—Newkirk Hotel Co. having preliminary plans prepared by E. Charles, 404 Orpheum Bldg., Wichita, Kan., 4 story, 50 x 150 ft., rein.-con. and brick, plain foundation, Main St. $150,000.

Okla., Tulsa—School—Bd. Educ. making preliminary plans 4 new High School buildings, rein.-con. and brick, plain foundations. $2,000,000. Architect not selected.

Colo., Denver — Club — Denver Aerie of Eagles 2063, c/o S. Lobe, State House, plans club house. $500,000. Engineer and architect not selected.

Colo., Denver — Grade School — School Dist. had plans prepared by E. Groves, Foster Bldg., 2 story, 67 x 190 ft., brick, terra cotta and steel, between 11th and 12th Sts., Decatur and Bayard Sts., known as Fairview School. $150,000.

Nev., Sparks — High School — Sparks Junior School Dist. having plans prepared by F. J. DeLongchamps, Gazette Bldg., Reno, 2 story, brick. $150,000.

Calif., Beverly Hills—Office, Store and Apartment—S. Anderson, c/o W. A. Hudson, archt., Woodsbeekman Bldg., having plans prepared 5 story and basement, 100 x 150 ft. brick, Burton Way.

Calif., Hanford — Schools — Hanford Junior High School Dist. having plans prepared by W. H. Weeks, 369 Pine St., San Francisco, 1 story fireproof, probably rein.-con. gymnasium, auditorium, $150,000; 1 story rein.-con. academic building, $150,000.

Calif., Long Beach — Apartment — St. Regis Apartment Co., 1030 East Ocean Blvd., having preliminary plans prepared by J. H. Roberts, Marine Bank Bldg., brick addition, approximately 10 story. To exceed $200,000.

Calif., Long Beach—Club—C. T. McGrew & Sons, archts., 1345 West Ocean Ave., preparing plans fireproof, Hermosa and 2nd Sts. $150,000. Owner's name withheld.

Calif., Long Beach — Club — Details of financing now being worked out for club, East Ocean Blvd. $500,000. D. M. Smith, Empire Theatre Bldg., interested.

Calif., Long Beach—Store—H. A. Marti & Co., 411 Pine St., having preliminary

Buildings (Continued)

plans prepared by W. H. Austin, Pacific Southwest Bldg., 8 story, 150 x 150 ft., fireproof, 4th and Pine Sts.

Calif., Los Angeles—Apartment—T. A. McNamara, c/o Walker & Eisen, archts., Pacific Finance Bldg., having preliminary plans prepared apartment, 100 x 175 ft., about 5 story and basement, brick, Franklin Ave. To exceed $150,000.

Calif., Los Angeles — Club — Mt. View Country Club, c/o L. D. Sherer, designer, 7th Hill Bldg., had sketches made rein.-con., probably 4 story, Ventura Blvd. To exceed $150,000.

Calif., Los Angeles — Office and Loft — Universal Film Exch., 822 South Olive St., had plans prepared and soon takes bids 3 story and basement, 50 x 125 ft., brick, Olive St. Private plans.

Calif., Monrovia—Hotel—W. E. Keefe, 348 West White Oak St., representing organization which plans fireproof hotel. $250,000.

Calif., Sacramento—High School—Sacramento Junior College Dist. plans to vote on $150,000 or more bonds for fireproof junior high school. C. C. Hughes, secy. Bd. Educ.

Calif., San Francisco—Apartment—J. H. Nuttman, et. al., 4347 19th St., having plans prepared by G. A. Berger, 261 Valencia St., 5 story and basement, rein.-con. or steel and brick, Valencia and 14th Sts. $150,000.

Calif., San Francisco—Lindgren-Swinerton Co., Inc., general contracts, Standard Oil Bldg., soon takes bids 4,000 to 5,000 tons structural steel for 26 story and basement, Class A office building, New Montgomery St. near Howard St., for Pacific Telephone & Telegraph Co., 333 Grant Ave. Total estimated cost $3,500,000. Noted Dec. 26.

Calif., San Francisco — Office — W. B. Bourn, 2030 Bway., plans fireproof, Market, Front and Pine Sts. To exceed $150,000.

Calif., San Rafael — Hospital — J. H. Kuser, Cheeda Blk., interested in corporation which plans fireproof hospital. $250,000. Engineer and architect not selected.

Calif., Venice — Theatre — West Coast Theatre, Inc., et. al., Knickerbocker Bldg., Los Angeles, plan fireproof theatre, here. To exceed $250,000.

Calif., Woodland—Hotel—Woodland Hotel Co., c/o W. H. Weeks, archt., 369 Pine St., San Francisco, having preliminary plans prepared 4 or 5 story and basement, rein.-con., to contain 125 rooms, here. To exceed $150,000.

Que., Montreal — Hall and Office — Les Debardeurs Syndiques du Port of Montreal, having plans prepared by E. A. Doucet, 195 St. Catherine St., 5 story, rein.-con., brick, steel and stone, Bouscoeurs St. $150,000.

Ont., Toronto—Apartment—First Mortgage Bonds Ltd., 1104 Royal Bank Bldg., having plans prepared by Molesworth, West & Secord, 43 Victoria St., 7 story and basement, 100 x 180 ft. rein.-con., brick and steel, plain foundation. Sherbourne St. $800,000. Noted Feb. 7.

Ont., Toronto—School—Bd. Educ., 155 College St., having plans prepared by C. Dyson, 155 College St., 2 story and basement, 8 room, rein.-con., brick and steel addition to Rosedale School. $150,000.

BIDS DESIRED

Mass., Brookline (Boston P. O.)—School—Feb. 19, by Schoolhouse Dept., 2 story, 75 x 107 ft., brick, terra cotta and granite, Harvard St. $150,000. Kilham, Hopkins & Greeley, 9 Park St., Boston, archt.

N. Y., Annandale-on-Hudson — Science and Dormitory—Mar. 1, by C. H. Gardiner, archt., 46 North Pearl St., Albany, 3 story and basement, 54 x 62 ft. and 25 x 56 ft. science building, also 3 story and basement, 28 x 117 ft. dormitory, both cut stone and metal lumber, for St. Stephens School, here. $200,000. Heating, sanitary and electric contracts not included.

N. Y., Arlington—School—Feb. 11, by Union Free School Dist. 7, 2 story and basement, brick. $150,000. E. C. Smith, 39 Market St., Poughkeepsie, archt.

N. Y., Brooklyn—Hospital and Chapel—Feb. 25 (extended date) by Lord & Hewlett, archts., 2 West 45th St., New York, 6 story, 225 x 300 ft., brick, steel and stone, plain foundation, Albany and Atlantic Aves., here, for St. Johns Hospital, 1531 Atlantic Ave. $850,000. E. E. Seelye, 101 Park Ave., New York, engr.

N. Y., Brooklyn—School—Mar. 7, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., P. S. 214, Pitkin Ave. from Drew to Forbell Aves., for Bd. Educ., 500 Park Ave., New York City. Noted Mar. 29.

N. Y., Harrison—School—Feb. 25, by Bd. Educ., brick, steel and stone, $300,000. Tooker & Marsh, 101 Park Ave., New York City, archts. and engrs. Noted Jan. 24.

N. Y., Mamaroneck—High School—Feb. 19, by Bd. Educ., 2 story, brick, steel and stone, Boston Post Rd. and Palmer Ave. $475,000. E. Hahn, 290 Fulton St., Hempstead, archt. E. E. Seelye, 101 Park Ave., New York City, engr. Noted Dec. 6.

N. Y., New York—School—Mar. 7, by W. H. Gompert, archt., Flatbush Ave. extension and Concord St., Brooklyn, P. S. 77, Ward Ave. through to Manor Ave. south side of East 172nd St., here, for Bd. Educ., 500 Park Ave.

N. J., Morris Plains — Dining Hall and Kitchen—Feb. 29, by B. G. Lewis, comr. Charities & Corrections, Trenton, 5 story, 30 x 60 ft., brick, steel and hollow tile, for New Jersey State Hospital, here. A. B. Mills, Trenton, state archt. Noted Jan. 24.

Pa., Phila.—Art Museum—Feb. 27, by Comrs. Fairmount Park, Room 127 City Hall, constructing certain portions of Phila. Museum of Art. Borie, Trumbauer & Zantzinger, 1406 Land Title Bldg., and 1300 Otis Bldg., archts.

Pa., Phila.—Nurses Home—Feb. 15, by Magaziner, Everhard & Harris, archts., 603 Chestnut St., 6 story and basement, 38 x 125 ft. rein.-con. and terra cotta, plain foundation, 5th and Reed Sts., for Mt. Sinai Hospital, 5th and Reed Sts. $250,000.

N. C., Davidson—College—Feb. 18, by Davidson College, 3 story, concrete, brick and stone college and dormitory. $500,000. H. C. Hibbs, 4th and 1st Natl. Bank Bldg., Nashville, Tenn., archt.

N. C., Smithfield—Schools—Feb. 22, by H. B. Marrow, supt. Johnston Co., 2 schools, one at Princeton and other at Glendale. $150,000. C. C. Hook, Charlotte, archts.

O., Cleveland—Apartments—L. Duchon, 515 Ulmer Bldg., taking bids two 2 story and basement, 31 x 92 ft. and 28 x 92 ft., brick, East 91st St. $150,000. A. F. Janowitz, 811 Prospect Ave., archt.

O., Cleveland—Apartment—A. H. Oyer and J. Blachman, Bangor Bldg., taking bids 3 story and basement, 44 x 206 ft., brick, 1932 East 97th St. $700,000. S. H. White, 1032 Schofield Bldg., archt. Noted Jan. 31.

O., Cleveland—Bank and Commercial—State Banking & Trust Co., 734 Euclid Ave., taking bids and opens same about Mar. 1, 3 story and basement, 30 x 125 ft., brick and concrete, Hamm Ave. and Bway. $150,000. W. G. Caldwell, Park Bldg., archt. Noted Nov. 8.

O., Columbus—Hall—Feb. 18 (extended date) by Richards, McCarty & Bulford, archts., 584 East Broad St., 5 story, 120 x 130 ft., brick, steel and terra cotta, East State St., for Knight of Columbus, 6th and State Sts. $500,000. Noted Dec. 27.

Mich., Bad Axe—School—Feb. 20, by A. Dundas, secy. Bd. Educ, 2 story and basement, rein-con. brick and steel, plain foundation, $200,000 S. D. Butterworth, 909 Prudden Bldg., Lansing, archt.

Mich., Highland Park (Detroit P. O.)—School—Feb. 19, by R. A. Palmer, business mgr. Bd. Educ., 2nd Blvd. and Glendale Ave., 3 story, 110 x 140 ft. rein.-con., brick, steel and stone, plain foundation. Cortland Ave. $200,000. Noted Dec. 13.

Ill., Chicago—Apartment—A. S. Traisman, c/o J. Cohen & Co., archts., 140 North Dearborn St., taking bids 3 story and basement, 80 x 140 ft., fireproof, 1235-41 North Shore. $150,000.

Ill., Chicago—Bank and Office—W. G. Uffendell, archt., 39 South State St., taking bids 2 story, 79 x 125 ft., fireproof, Fullerton and Central Park, for Kimball Trust and Savings Bank, 3538 Fullerton St. $200,000.

Wis., Elkhart Lake—Sanitarium—Mar. 6, by Tuberculosis Sanitarium Comn., W. S. Wisselink, chn., Hingham, 2 story, 60 x 180 ft., brick, rein.-con. and steel. E. A. Stubenrauch, Imig Bldg., Sheboygan, archt. Noted Jan. 24.

Wis., Madison—Store and Apartment—J. H. Bertrand, De Forest, taking bids 2 story, 57 x 61 ft., rein.-con. and brick, plain foundation, State St. $150,000. P. Dean, Dean Bldg., archt.

Wis., Waupun—Refectory, etc.—Mar. 3, by State Bd. Control, J. J. Hanan, secy., Madison, 2 story, 50 x 100 ft., refectory and ward buildings, at State Prison, here, brick, rein.-con. and stone, plain foundation. $150,000. A. Peabody, State Capitol, Madison, archt.

Minn., Redwood Falls—School—Feb. 27, by Bd. Educ., 2 story and basement, 147 x 150 ft., rein.-con., brick, tile and stone $165,000. G. Pass & Son, Mankato, archts. Rose & Harris, 318 Auditorium Bldg., Minneapolis, engrs. Noted Nov. 1.

Mo., St. Louis—Seminary—Feb. 15, by Day & Klauder, archts., 925 Chestnut St., Phila., group of brick, rein.-con. and stone buildings on 70 acre tract, here, for Missouri Evangelical Synod, c/o Concordia Seminary. $2,000,000.

Okla., Pawhuska—Temple—Feb. 26, by C. L. Folley, secy. Wah Sha Mong Lodge 110, A. F. & A. M., 3 story, 80 x 148 ft., rein.-con. and brick, plain foundation, Main St. $150,000. Noted Oct. 11.

Calif., Sacramento—Store and Apartment—Baumann & Jose, archts., 251 Kearny St., San Francisco, receiving bids 6 story and basement, concrete, 12th and L Sts., here, for B. S. Berry, 110 Sutter St., San Francisco. $150,000.

Calif., San Francisco—Hotel—A. Vaysse, 107 4th St., receiving bids 6 story and basement, rein.-con. and steel, Eddy and Jones Sts. $200,000 or more. Faltre & Hildebrand, 110 Sutter St., archts. Noted Dec. 20.

Ont., Richmond Hill—High School—Feb. 18, by H. Marden, secy. School Bd., Sterling Bank, and Burden & Gouinlock, archts., 101 King St. W., Toronto, 2 story and basement, 8 room, rein.-con., brick and steel, plain foundation. $150,000. Noted Jan. 17.

BIDS RECEIVED

N. Y., Amsterdam—School—Bd. Educ. general contract for school, from Prahl Constr. Co., Erie, Pa., $464,300. Noted Jan. 24.

N. Y., Bellaire (Jamaica P. O.)—School—Bd. Educ., 500 Park Ave., New York. Feb. 7, P. S. 109, brick, steel and stone, plain foundation, 92nd Ave. from 213th St. to 213th Pl., here, from Lustbader Constr. Co., 423 Madison Ave., New York, $97,300, A deduct $24,000, B add $4,000, C add $3,300. Noted Jan. 24.

N. Y., Brooklyn—School—Bd. Educ., 500 Park Ave., New York, Feb. 7, P. S. 201, brick, steel and concrete, plain foundation, 12th Ave. from 80th to 81st Sts., here, from T. A. Clarke Co., 122 Livingston St., $796,200, A deduct $14,000, B add $5,100, C add $4,000. Noted Jan. 24.

N. Y., New York—Bath House—J. Miller, pres. Manhattan Boro, Municipal Bldg., general contract for bath house, 34 West 134th St., from Blumar Constr. Co., 25 West 43rd St., A $324,200, L. Glantz, Inc., 110 West 40th St., B $223,290; plumbing and water supply in above, from D. Brandi, Inc., 467 East 155th St., A $29,987, B $22,787; heating and ventilating, from Teran Lange, Inc., Grand Central Terminal, A $26,875, B $23,775.

N. J., Florence—Florence Twp. School Bd., general contract 2 story and basement, 84 x 146 ft., brick and steel, plain foundation, from I. F. Day & Son, Fitzcharles Bldg., Trenton, $124,500. Noted Jan. 31.

Pa., Phila.—School—Bd. Educ., 3 story and basement, 50 x 120 ft. with 2 wings, 48 x 97 ft. and one wing 50 x 96 ft. general contract from Sinclair & Griggs, Otis Bldg., $437,800, plumbing from Thomasson Bros., 520 Buttonwood St., $28,780, heating from McClintock Bros., 5608 Race St., $49,995, also alterations and additions to school on Benner and Pitman Sts., general contract from Nelson-Pedley Constr. Co., 1615 Spruce St., $215,000, heating from McCullough Bros., 5608 Race St., $36,000. Noted Jan. 31.

D. C., Wash. — School — Dist. Comrs. Room 509 District Bldg., 20 room addition to Western High School, from Parsons & Hyman, 19th and E Sts., (1) $478,000 (2) deduct $500 (3) add $500, (4) add $1,800. Noted Jan. 17.

Ky., Louisville—Office—Famous Players Lasky Corp., Pioneer St. and Bway. Cincinnati, O. 3 story, 76 x 105 ft., brick. 1st and Chestnut Sts., here, from R. N. Struck Constr. Co., 101 East Main St., $155,000.

CONTRACTS AWARDED

Mass., Boston—Apartment—B. Snider, 18 Tremont St., will build 5 story, 105 x 168 ft., brick and stone, Ivy St., by day labor. G. N. Jacobs, 12 Bosworth St., archt.

N. Y., Brooklyn—Apartment—Madison Constr. & Impvt. Co., c/o Cohn Bros., archts. and engrs., 361 Stone Ave., will build 5 story, brick, steel and stone, plain foundation, Hewes St., by day labor. $200,000.

N. Y., New York—Apartment—Bonidell Realty Corp., c/o C. Kreymborg, archt.

Buildings (Continued)

and engr., 2534 Marion Ave., will build brick, steel and stone, plain foundation, Burnside Ave., by day labor. $275,000.

N. Y., New York—Apartment—D. Garman, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 6 story, 100 x 200 ft., brick, steel and stone, plain foundation, Grand Concourse, by day labor.

N. Y., New York — Apartment — One Thousand One Hundred Fifty-Eight 5th Ave., Inc., Princeton Club, 86 Park Ave., 15 story, 100 x 140 ft., brick, steel and stone, plain foundation, 5th Ave. and 97th St., to Dwight P. Robinson, 125 East 46th St. Archts. est. $2,000,000.

N. Y., New York—Apartment—Park Ave. and 74th St. Corp., c/o Electus D. Litchfield & Rogers, archts. and engrs., 477 5th Ave., 14 story, brick, steel and stone, plain foundation, 74th St. and Park Ave., to Starrett Bros., Inc., 101 Park Ave. Archts. est. $1,000,000.

N. Y., New York—Apartment—M. Roseff, c/o R. T. Lyons, archt. and engr., 342 Madison Ave., will build brick, steel and stone, plain foundation, West 93rd St., by day labor. $800,000.

N. Y., New York—Apartment—A. Rosenfeld, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build 5 story, brick, steel and stone, plain foundation, Prospect Ave., by day labor. $250,000.

N. Y., New York — Apartment — A. Schwab, c/o C. Schaefer, archt. and engr., 294 East 150th St., will build 6 story, brick, steel and stone, plain foundation, Walton Ave., by day labor. $175,000.

N. Y., New York—Apartment—A. Silverman, c/o C. Kreymborg, archt. and engr., 2534 Marion Ave., will build brick, steel and stone, plain foundation, Bryant Ave., by day labor. $175,000.

N. Y., New York — Bank and Office — Railroad Co-operative & Loan Assn., 437 Lexington Ave., 13 story, brick, steel and stone, plain foundation, Lexington Ave., to G. A. Fuller Co., 175 5th Ave. Archts. est. $800,000. Noted Jan. 3.

N. Y., New York—Synagogue—Kehilath Israel Congregation, 1172 Jackson Ave., brick, steel and stone, plain foundation, Crotona Park E., to G. Colon & Co., 81 East 125th St. Archts. est. $250,000.

N. J., Bayonne — Apartment — Meltzer Bros. (owner and builder) 1066 Boulevard, will build six 3 story, 44 x 67 ft., brick, Ave. B, West 49th and West 50th Sts., by day labor. $175,000. Owner taking bids on sub-contracts. H. Adelman, 404 Bway., archt.

Pa., Phila.—Synagogue—Har-Zion Temple, c/o L. Rothschild, archt., 215 Broad St., 2 story and basement, 60 x 90 ft., steel and stone, plain foundation, 54th and Wynnefield Aves., to Murphy & Quigley, 1520 Sansom St., $150,000.

Pa., Williamsport—Bank—P. A. Davis, 3rd and Dunlap, 1713 Sansom St., Phila., archts., altering old structure and building 5 story and basement, 51 x 109 ft. rein.-con., brick and steel addition, plain foundation, Front, 3rd and Court Sts., for 1st Natl. Bank, to F. G. Stewart, 1520 Locust St., Phila. Noted Jan. 10.

O., Celina—High School—Bd. Educ., 2 story and basement, 60 x 160 ft. with 60 x 70 ft. wing, to Baker & Schindler, Defiance, $134,000. Noted Jan. 31.

Wis., Mayville—High School—Bd. Educ. 2 story, 70 x 157 ft. high school and 80 x 200 ft. gymnasium, rein.-con., brick and steel, plain foundation, to Rhode Kapelle Co., R. 2, $183,936. Noted Feb. 7.

Wis., Milwaukee—Business—C. Niss & Sons, 697 3rd St., 4 story and basement, 87 x 150 ft., brick and concrete, plain foundation, to Dahlman Constr. Co., 456 Bway. $200,000. Noted Jan. 31.

Wis., Milwaukee—Office—E. D. Fryer, 400 Grand Ave., 4 story and basement, 50 x 120 ft., brick and timber, plain foundation, East Water St., to Brun Constr. Co., 287 Clinton St. $150,000. Noted Nov. 1.

Wis., Prairie du Sac—School—Bd. Educ., 2 story, 59 x 96 ft., brick, rein.-con. and stone, plain foundation, to Dresen Bros. Co., Sauk City. Noted Jan. 17.

Minn., St. Paul—School—Dept. Educ., City Hall, 2 story and basement, rein.-con., brick and tile, general contract to Perry A. Swenson Co., 345 Endicott Bldg., $122,-014. Noted Jan. 31.

Mo., St. Louis — Apartment — H. Hess, 3665 Connecticut St., will build 3 story and basement, 105 x 125 ft., brick, rein.-con. and stone, plain foundation, Maple St., by day labor under supervision of G. Boughton, archt., 6331 Clayton Ave. $150,000.

Tex., Dallas—College—Southern Methodist University, general contract 3 story and basement, brick and concrete, on campus, known as Kirby Hall, to Bellows & Maclay Constr. Co., Kirby Bldg., $130,000. Archts. est. $150,000. Noted Dec. 6.

Tex., Ft. Worth—Hospital—C. H. Harris, 1028 5th Ave., general contract 3 story and basement, 65 x 100 ft., concrete, brick and stone, 5th Ave., to Butcher & Sweeney, 806 Taylor St., $130,000. Noted Nov. 22.

Okla., Oklahoma City — School—Bd. Educ., constructing Harding Jr. High School, 3 story and part basement, 217 x 233 ft., brick and stone, to A. F. Stewart Constr. Co., 1st Natl. Bank Bldg. Archts. est. $400,000. Noted Oct. 11.

Calif., Elsinore — Club — Southern California Athletic & Country Club, Consolidated Realty Bldg., Los Angeles, 2 story, rein.-con. and hollow tile, here, to Wurster Constr. Co., 746 Central Ave., Los Angeles, $153,000.

Calif., Long Beach—Bank and Office—Security Trust & Savings Bank, 502 South Spring St., steel for 12 story and basement, Class A, Pine Ave. and 1st St., to Llewlyn Iron Wks., 1200 North Main St., Los Angeles, $200,000. Noted Jan. 24.

Calif., Los Angeles—Store and Loft—Columbia Investment Co., c/o A. C. Martin, archt., Higgins Bldg., 5 story and basement, 62 x 154 ft., brick, steel and rein.-con., Bway. near 6th St., to Barrett & Hilp, Bank of Italy Bldg., $280,000. Desmonds, 553 South Spring St., lessee.

Calif., San Francisco — Apartment — C. Peterson, 390 6th St., will build 6 story and basement, concrete, California St. near Jones St., by day labor. $155,000. Baumann & Jose, 251 Kearny St., archts. Noted Jan. 10.

Federal Government Work

PROPOSED WORK

N. Y., West Point—Stadium—U. S. Engineer Office, West Point, plans stadium, seating capacity 20,000 (but designed for larger capacity) at U. S. Military Academy, here. Osborn Eng. Co., 7016 Euclid Ave., Cleveland, O., engrs.

Ky., Owensboro—U. S. Engineer, P. O. Box 72, Louisville, plans to purchase 350,-000 ft. yellow pine No. 2 common and better, also 192,000 ft. yellow pine No. 1, common and rough.

Ind., Leavenworth—Cement—U. S. Engineer, P. O. Box 72, Louisville, soon takes bids and opens same about Mar. 25, 10,000 bbl. cement for Dam 44. Noted Dec. 27.

BIDS DESIRED

Ala., Florence—Generators—Mar. 22, by U. S Dist. Engineer, Florence, furnishing 4 electric generators, each 32,000 kva., conventional vertical shaft revolving field type, 3 phase, 60 cycle, 12,000 volts at 100 r.p.m. $750,000.

Ky., Addison—Steel Form and Coffer Rods—Feb. 18, by U. S. Engineer, P. O. Box 72, Louisville, furnishing 80 tons round steel form and coffer rods, f.o.b. Addison.

Ky., Owensboro—Soft Steel Bars—Feb. 19, by U. S. Engineer, P. O. Box 72, Louisville, furnishing 60 tons soft steel bars, ¾ in. diam. washers and nuts, f.o.b. Owensboro.

Calif., Livermore—Ice and Refrigerating Plant—Mar. 28, by U. S. Veterans Bureau, Room 791, Arlington Bldg., Wash., D. C., ice making and refrigerating plant at hospital here; adv. E. N.-R. Feb. 14.

BIDS RECEIVED

N. C., Cape Lookout — Boat House, Quarters, etc.—Spec. 4906—Bureau Yards & Docks, Navy Dept., Wash., D. C., boat house, remodeling quarters and concrete retaining wall, at Naval Radio Compass Sta., here, from A. R. Master Co., Bank of Hampton Bldg., Hampton, Va., (1) $9,999 (2) $700 (3) $49 (4) $200 (5) $100 (6) $60.

Ky., Addison—Steel Sheet Piling—U. S. Engineer, P. O. Box 72, Louisville, furnishing 300 tons steel sheet piling, from Carnegie Steel Co., Carnegie Bldg., Pittsburgh, Pa., $57 per ton.

H. T., Pearl Harbor—Storehouse—Spec. 4911—Bureau Yards & Docks, Navy Dept., Wash., D. C., paint and oil storehouse at Naval Operating base, here, from A. Pope, 4722 15th St., Wash., D. C., (1) $60,000 (2) $6,000 (3) $6,000 (4) $12,000, telegraphic modification add $29,000.

CONTRACTS AWARDED

Ky., Owensboro—Hard Wood Piles—U. S. Engineer, P. O. Box 72, Louisville, furnishing 1,200 hard wood piles for Dam 46, to W. A. Davis Hardwood Lumber Co., Peoples Gas Bldg., Chicago, Ill., $5,000.

Wis., Milwaukee—Steel Crane—U. S. Engineer, Federal Bldg., one revolving steel crane, to McMyler-Interstate Co., Stop 27, A, B and C Electric Ry., Cleveland, O., $19,200. Noted Jan. 31.

Unclassified

PROPOSED WORK

Canal Terminal—Troy, N. Y.—Commissioner of Canals, 55 Lancaster St., Albany, soon takes bids barge canal terminal, here. $300,000.

Stadium — Morgantown, W. Va. — West Virginia University plans stadium on Falling Run Ravine. $500,000. Osborn Eng. Co., 7016 Euclid Ave., Cleveland, O., engrs.

Sea Wall—Daytona, Fla.—See "Sewers."

Transmission Line — Tennessee — Erin Utilities Co., Erin, granted franchise for 8 mi. transmission line from Erin to Cumberland City.

Transmission Line—Kentucky and Indiana—Kentucky Utilities Co., M. E. Taylor Bldg., Louisville, Ky., and Interstate Pub. Serv. Co., Board of Trade Bldg., Indianapolis, Ind., plan 66,000 volt transmission line from Scottsburg, Ind., to Dix River, Ky., across Ohio River. To exceed $75,000. N. R. Orcutt, c/o Interstate Pub. Serv. Co., Scottsburg, Ind., locating engr.

Transmission Line—Kentucky—Kentucky Utilities Co., M. E. Taylor Bldg., Louisville, plans transmission line from Lebanon to new Dix River power site, also extension to system in Lebanon. $100,000. G. Bogart, ch. engr.

Retaining Wall—Louisville, Ky.—Inland Waterways Co., 316 West Jefferson St., plans 800 ft. retaining wall in connection with proposed terminal warehouse on river front. $35,000.

Distribution System—Fredonia, Kan.—See "Industrial Works."

Elimination of Grade Crossings — California—See "Bridges."

Transmission and Distribution Lines, Tunnels, etc.—Los Angeles, Calif.—See "Industrial Works."

Pier—San Francisco, Calif.—State Bd. Harbor Comrs., Ferry Bldg., had working plans approved, 385 x 600 ft. pier, concrete and pile, also two sheds and railroad track, foot of 3rd St. $1,500,000-$2,000,-000. Bids will be asked when State Treasurer authorizes sale of $2,000,000 bonds. F. G. White, Ferry Bldg., engr.

Hydro Electric Lines — Mimico, Ont. — Voted $46,000 bonds for extending and improving hydro electric system. Engineer not selected.

Heating and Ventilating Systems — Toronto, Ont.—Bd. Educ., 155 College St., having plans prepared new heating and ventilating systems in Huron St., Essex and Perth Ave. Schools. $108,000. C. Dyson, 155 College St., archt.

BIDS DESIRED

Bulkhead—Bayonne, N. J.—Feb. 21, by Hudson Co. Park Comrs., 1 Exchange Pl., Jersey City, bulkhead at Bayonne Park, here. Former bids rejected. C. N. Lowrie, c/o owner, landscape archt.; adv. E. N.-R. Feb. 14. Noted Jan. 17.

Stadium—Erie, Pa.—Feb. 28, by R. S. Scobell, dir. Schools, rein.-con. stadium, seating 19,000, here. Osborn Eng. Co., 7016 Euclid Ave., Cleveland, O., engrs.

Sand and Gravel Bin—Madison, Wis.—Castle & Doyle Co., 125 State St., taking bids sand and gravel bins, etc., Regent St. $25,000. F. L. Kronenberg, Carroll Blk., engr.

Stadium—Minneapolis, Minn.—University of Minnesota taking bids rein.-con. stadium, seating capacity 50,000. Osborn Eng. Co. 7016 Euclid Ave., Cleveland, O., engrs. F. M. Mann and associates, Architectural School, archts. Noted Oct. 11.

Retards—Missouri—Feb. 21, by State Hy. Dept., Jefferson City, two 100 ft., eight 150 ft. and eight 200 ft. current retards for Missouri River bank protection project in connection with bridge at Glasgow, Federal Aid Project 217, Howard and Saline Counties. Project to be financed by State Hy. Dept., War Dept., U. S. Bureau Pub. Rds., and local organizations. B. H. Piepmeier, state highway engr. Noted Jan. 31.

Steel Hull, etc.—Portland, Ore.—Mar. 15, by Port of Portland, 916 Spalding Bldg., steel hull, trusses and house for 30 in. diesel electric dredge. J. H. Polhemus, genl. mgr. and ch. engr.; adv. E. N.-R. Feb. 14.

Unclassified (Continued)

BIDS RECEIVED

Ferry Boats—New Orleans, La.—Algiers Pub. Service Inc., 1 Canal St., twin steel hull paddle wheel ferry boats, 150 ft. 6 in. deck, (a) price for one boat, (b) price of each boat for two boats, from Howard Ship Yards & Dock Co., Jeffersonville, Ind., (a) $137,743 (b) $135,973. Noted Dec. 17.

Gas Pipe — Los Angeles, Calif. — City, 150,800 lin.ft. 1- to 12-in. black steel and service gas pipe, from Pacific Pipe & Supply Co., 1112 West Ocean Ave., $64,988.

CONTRACTS AWARDED

Gas Tank — Albany, N. Y. — Municipal Gas Co., 126th St., steel gas tank, concrete foundation, 3,000,000 cu.ft. capacity, in North Albany, to Bartlett Haywood Co., c/o owner, $275,000. Noted Jan. 17.

Foundations — Ft. Worth, Tex. — Methodist Sanitarium, c/o W. E. Williams, Texas State Bank, concrete foundations for 8 story, X shaped building, to J. T. Taylor, Burkburnett Bldg., $36,296. Total for building $1,000,000.

Pipe Line—Santa Anna, Tex.—Prairie Oil & Gas Co. will build 30 mi. 8-in. pipe line from here to Crosse Plains, by day labor. $75,000.

Transmission Lines — San Francisco, Calif.—City and San Francisco Co., transmission lines for Hetch Hetchy project, to Pacific Coast Steel Co., Rialto Bldg., $437,944.

Lighting System—Culver City, Calif.—Los Angeles Co., (Los Angeles), street lighting system on Washington Blvd. between east and west city limits, here, to Electric Lighting & Supply Co., 216 West 3rd St., Los Angeles, $39,500.

Tunnel — Oregon — See "Streets and Roads."

Material and Equipment

PROPOSED WORK

Sand, etc.—Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., rejected bids Jan. 14, 11,000 cu.yd. sand and 14,000 tons steam ashes. Will readvertise. Noted Jan. 17.

Structural Steel—Louisville, Ky.—Louisville & Nashville R.R. Co., 10th and Bway., plans to purchase 6,800 tons structural steel for bridgework, mainly in Louisiana. $450,000. W. H. Courtnay, ch. engr.

BIDS DESIRED

Rip Rap—Scotia, N. Y.—Mar. 11, by R. K. Fuller, comr. Canals & Waterways, Albany, rip rap at Movable Dam 4, here. Contr. 215; adv. E. N. R. Feb. 14.

Steam Roller—West New Brighton, N. Y.—Feb. 20, J. A. Lynch, pres. Richmond Boro, Boro Hall, St. George, New Brighton, one 10 ton three wheel steam roller equipped with steam pressure scarifier, at store yard of Bureau of Highways, Dubois Ave., here.

Fibre Conduit—Baltimore, Md.—Feb. 20, by Bd. Awards, 50,000 ft. more or less 3-in. fibre conduit. C. F. Goob, ch. engr. Electrical Comn., 311 St. Paul Pl.

Pipe—Harrisburg, Pa.—Feb. 20, by Dept. Highways, furnishing corrugated metal, rein.-con. and c.i. pipe. P. D. Wright, secy.

Freight Handling Equipment — Tampa, Fla. — Mar. 11, by City Comn., gasoline power locomotive, standard gage, capacity to handle two loaded freight cars; locomotive crane, 15 to 20 ton capacity and one magnet for handling steel, combined if possible; conveyor or stacker for elevating and piling bags of fertilizer, etc.; electric or gasoline truck and trailers; 1 to 4 sets automatic platform scales, capacity 1,000 lb. each; 50 hand trucks. Bids may be submitted on all or any part. W. L. Brown, city mgr.

Curbstone—Detroit, Mich.—Feb. 18, by G. J. Finn, comr. Purchase & Supplies Dept., 700 Marquette Bldg., 7,000 lin.ft. Medina, 5,000 lin.ft. Berea, 2,000 ft. granite and 4,000 lin.ft. limestone curbstone.

Double Drum Hoist—Eau Claire, Wis.—G. Osborn, comr. Eau Claire Co., taking bids one double drum hoist for drag-line, 300 cu.yd. per day.

Gravel Pit Machines—Manitowoc, Wis.—Mar. 3, mounted stone crusher, chain bucket elevator dragline equipped with ½ yd. bucket and 8 ft. revolving screen. F. Alter, City Hall, engr.

Steel, Lumber, etc.—Sac City, Ia.—Feb. 21, by Clerk Sac Co. 36,000 lb. reinforcing steel, 4,500 ft. culvert pipe, 1 car lumber. W. D. Maxwell, engr.

Ladders, Fir, Valves, etc. — St. Paul, Minn.—Feb. 19, by H. W. Austin, city purch. agt., 9,067 lb. miscellaneous wrought and c.i. ladders, stairs, manholes and special castings; 2,000 pieces 2 x 8-16 No. 1 fir (rough or smooth one side one end), 500 pieces 4 x 4-16 No. 1 fit, 300 pieces 3 x 8-16, 500 pieces 2 x 4-16, 500 pieces 1 x 6-16; 2 horizontal swing type check valves for Water Dept., 3 vertical spur-geared band-operated gate valves, 2 vertical hydraulic gate valves. G. M. Shepard, city engr.

Road Graders—Houston, Tex.—Feb. 25, by H. L. Washburn, aud. Harris Co., road graders and 4 one ton trucks. Howe & Wise, co. engrs.

BIDS RECEIVED

Asphaltic Cement—Trenton, N. J.—For 300 tons asphaltic cement for Street Dept., from Warner-Quinlan Co., 79 Wall St., New York City, $14.80 per ton. Noted Jan. 31.

CONTRACTS AWARDED

Asphaltic Cement — Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., 950 tons asphaltic cement in light containers, to Standard Oil Co., 26 Bway., New York, $18,212. Noted Feb. 7.

Paving Blocks—Long Island City, N. Y.—M. E. Connolly, pres. Queens Boro, Queens Subway Bldg., 25,000 vitr. paving blocks, to G. B. Raymond & Co., 293 Borden Ave., $62 per M. Noted Jan. 17.

Cement—Detroit, Mich.—Dept. Purchases & Supplies, 700 Marquette Bldg., furnishing 150,000 bbl. portland cement, to Huron & Wyandotte Portland Cement Co., 1325 Ford Bldg., $1.85 in bulk at Wyandotte plant, $2.12 in bulk f.o.b. Detroit.

Valves—San Francisco, Calif.—City and San Francisco Co., three butterfly valves, 104 in. inside diameter, one c.i. blind flange for one side of valve, one steel platform extending over valve, all operating mechanism for valves, bypass valves and connections, bolts and gaskets for joints, foundation and platform, Hetch Hetchy Moccasin Creek Power plant, to J. Hendy Iron Wks., 75 Fremont St., $26,728. Noted Jan. 24.

OFFICIAL PROPOSALS

Bids: Feb. 23.

Intercepting Sewer

Lima, Ohio

Sealed proposals for the construction of an intercepting sewer, designated as Contract "B" will be received at the office of the City Manager, Lima, Ohio, until 12 o'clock noon (Central Standard Time) February 23rd, 1924, and will then be publicly opened and read. The City reserves fifteen (15) days thereafter in which to act on the bids.

Contract B comprises the construction, with connections and appurtenances, of an intercepting sewer along and adjacent to the Ottawa River. The work consisting of about 2.4 miles of sewers, varying in sizes from 12 to 36 inches in diameter, together with one inverted syphon under the Ottawa River. Also all standard and diversion manholes, regulating chambers and other connections.

Plans and specifications may be seen or obtained at the office of the Supervising Engineer, City Hall, Lima, Ohio. A charge of $5.00 will be made for a complete set covering this contract.

The City Manager reserves the right to reject any or all bids, to waive any informalities in the bids received and to accept any bid which is deemed most favorable to the interest of the City of Lima, Ohio.

CLARENCE A. BINGHAM,
City Manager.

B. F. DARRING,
Supervising Engineer.

Bids: Mar. 3.

Sewage Treatment

CONTRACTS 41, 42, 43 AND 44

Syracuse, N. Y.

Sealed proposals will be received until 3 o'clock p.m., standard time, March 3, 1924, at the office of the Syracuse Intercepting Sewer Board, 104 City Hall, Syracuse, N. Y., for Contract No. 41 for Bar screens and raking equipment for main sewage station.

Contract No. 42 for machinery and eqeuipment for sludge pumping station, including 4 vertical triplex stuff pumps connected to 15 hp. variable speed A.C. motors control equipment and appurtenances.

Contract No. 43 for exterior wiring and lighting for sewage treatment works.

Contract No. 44 for transformer sub-station structure.

All of said contracts form a part of the Sewage Treatment Works of the City of Syracuse.

Proposals must be made on blanks to be furnished upon application and must be accompanied by a New York Draft or certified check on a Syracuse bank for 5% of the amount bid, which shall be payable to the order of the Board and shall be given as a guarantee that the successful bidder will within five days after award execute said contract.

Drawings, specifications and form of proposals and contract are on file in the offices of the Board. Copies thereof may be obtained by depositing $10.00 to insure their return in acceptable condition on or before April 1, 1924.

HARRY J. HAMLIN,
Secretary.

Bids: Feb. 25.

Gate Valves

Springfield, Mass.

Sealed proposals will be received by the Board of Water Commissioners of the Springfield Municipal Water Works, at its office in the Municipal Building, Springfield, Mass., at 11 o'clock a.m., February 25, 1924, for furnishing gate valves.

The proposal shall state price per valve, delivered f.o.b. Armory, Mass., for each size of valve in accordance with the following schedule:

125— 8-in. Valves, double bell
15—12-in. Valves, double bell

Twenty per cent (20%) of the 8-in. valves must be furnished by April 7, 1924, and the entire order completed on or before May 15, 1924.

The proposal shall be placed in a sealed envelope addressed to the Board of Water Commissioners, Springfield, Mass., and plainly marked on the outside "Sealed Proposal for Valves."

The Board of Water Commissioners reserves the right to increase the number of either of the items designated above according to its needs during the year 1924. The number specified is given as a basis of estimate only.

The Board of Water Commissioners reserves the right to reject any or all bids, or to accept any bid or any portion of any bid which it may be to the best interests of the city so to do.

For further information and specifications, apply to the Superintendent at the above address.

Board of Water Commissioners,
Springfield, Mass.,
H. M. KING, Superintendent.